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Award Number: W81XWH-12-1-0386

TITLE: A Model for Predicting Cognitive and Emotional Health from Structural and Functional Neurocircuitry Following Traumatic Brain Injury

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REPORT DATE: OCTŠÑÓÞ 2013

TYPE OF REPORT: Annual

PREPARED FOR: U.S. Army Medical Research and Materiel Command Fort Detrick, Maryland 21702-5012

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18. NUMBER

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176

19a. NAME OF RESPONSIBLE PERSON

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16. SECURITY CLASSIFICATION OF:

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INTRODUCTION

Mild traumatic brain injury (TBI) represents a major health concern and economic burden in the United States [1]. A significant proportion of individuals with mild TBI will present with prolonged recovery and persistent symptoms, and it is yet unclear why some individuals will show a good injury outcome, whereas other will not [2-5]. Structural damage to white matter axonal tracts has been suggested to underlie these persistent behavioral changes [6-10]. Yet due to differences in brain imaging methods, neuropsychological testing approaches, and sample characteristics, this has not been consistently demonstrated at different recovery stages. Furthermore, the relationship between structural connectivity, functional connectivity and neuropsychological performance remain unclear.

The proposed study will be the first to systematically assess structural connectivity, functional connectivity and neuropsychological functioning at five recovery stages (i.e., two weeks, one month, three months, six months and 12 months) following mild TBI relative to healthy controls. We hypothesize that structural white matter tract disintegrity will underlie abnormalities in functional connectivity, neurocognitive performance and post-concussion symptom severity, but that these metrics will vary with time since injury. The primary aim of the proposed study is therefore to investigate whether measures of white matter disintegrity following mild TBI would explain abnormalities in functional connectivity of the brain, cognition and emotional disturbance, and whether white matter integrity (or lack thereof) could serve as a reliable biomarker of mild TBI. This will allow conclusions on the utility of measures of white matter integrity in the diagnosis of mild TBI. As the study incorporates five time points of measurement to represent different recovery stages of mild TBI, this will allow conclusions on the natural recovery course of mild TBI and the utility of white matter integrity measures in the prediction of injury outcome.

BODY

Accomplishments According to Statement of Work (SOW)

The study is progressing as planned. Consistent with the Statement of Work Year 1, the following tasks have been accomplished:

SOW 1: Study preparation, staff hiring and materials acquisition.

Accomplishments:

- The PI hired one research assistant and one post-doctoral fellow to work on the project. New study staff has been trained extensively in study procedures, administration of assessment tasks, magnetic resonance imaging data collection, data input, data storage and data quality checks.
- All materials necessary to initiate data collection were purchased, including computers, neuropsychological tests, and software.
- The PI hired an expert neuroimaging consultant from the A.A. Martinos Center for Biomedical Imaging, Massachusetts General Hospital, Harvard Medical School, Boston, MA to optimize the diffusion-weighted imaging protocol for the purpose of this study. The diffusion-weighted sequences underwent extensive testing and optimization prior to data collection.

• All other neuroimaging sequences (i.e., to collect anatomical and functional connectivity data) also underwent extensive testing prior to data collection.

SOW 2: Human subjects approval.

Accomplishments:

- The PI obtained local IRB approval on 5 SET 2012.
- The PI obtained approval through USAMRMC on 15 OCT 2012.

SOW 3: Advertisement and subject recruitment.

Accomplishments:

- Starting 1 MAR 2013, recruitment flyers were placed around the Boston metropolitan area. Additionally, emails were sent to Massachusetts's sport teams at all playing levels including coaches, athletic trainers, and team captains at all major universities and community colleges. Recruitment ads were also placed on internet platforms such as Craigslist and on internet radio stations such as Pandora.
- As of 1 OCT 2013, 51 subjects were screened via phone, of which 19 were deemed eligible for the study and scheduled for an intake assessment session. Of those volunteers, thus far 11 were consented and 10 have completed the study (2 healthy controls; 8 subjects with a history of mild TBI; two weeks postinjury: n=0, 1 month post-injury: n=0, 3 moths post-injury: n=1, 6 months post-injury: n=5, 12 months post-injury: n=2). In addition, 4 subjects are scheduled for scanning sessions in the coming weeks.

SOW 4: Data collection.

Accomplishments:

- 10 participants have completed all aspects of the study (2 healthy controls, 0 at two weeks post-injury, 0 at one month post-injury, 1 at three months post-injury, 5 at six months post-injury, 2 at 12 months post-injury), yielding 10 complete data sets of neuroimaging and neuropsychological data.
- Neuroimaging data were transferred to local lab computers and checked for data quality (i.e., visual inspection for acquisition errors). All behavioral data were entered in excel spreadsheets by two different technicians and crossvalidated for errors. As an example of the data that are being collected, Figure 1 shows the diffusion tensors (indicative of white matter tracks directionality) for a single subject at 6 months post-injury (axial view). Figure 2 visualizes diffusion tensors of a single subject at 3 months post-injury (coronal view).

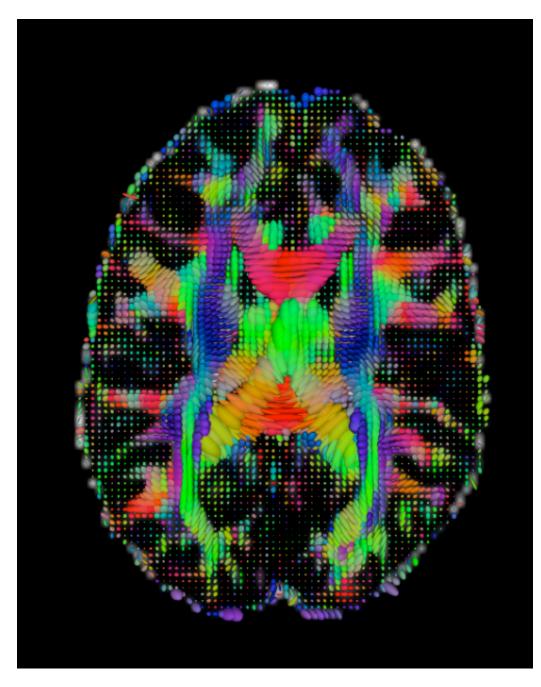


Figure 1: Visualization of diffusions tensors of a single subject at 6 months post-injury (axial view)

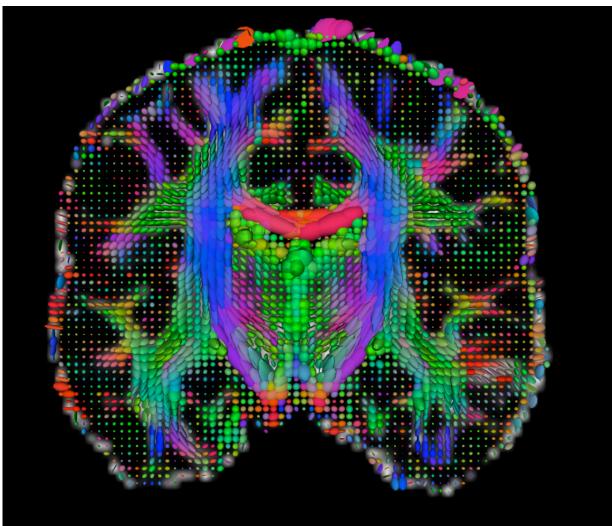


Figure 2: Visualization of diffusion tensors of a single subject at 3 months post-injury (coronal view)

Preliminary findings:

The following descriptives illustrate the range of post-injury deficits and cognitive problems present in the current sample. Ten right-handed subjects aged 20 to 26 (mean age: 21.8, SD 1.93; 7 females, 3 males) participated in the study. All subjects with a history of mild TBI were assessed within 3 days of their respective post-injury date. Using the semi-structured Ohio State University TBI Interview, 50% present with multiple mild TBIs. Whereas all but one subject with a history of mild TBI reported good functional recovery from the injury in terms of work, school and social commitments, 37.5% of all subjects self-reported clinically relevant excessive daytime sleepiness on the Epworth Sleepiness Scale (ESS; mean 7.2, SD 4.02, range 2-14); 62.5% reported subjectively reduced sleep quality in the Pittsburgh Sleep Quality Index (PSQI; mean 6.3, SD 5.25, range 0-16); 12.5% presented with clinically minimal depression of the Beck Depression Inventory II (BDI-II, mean 2.1, SD 4.28, range 0-14); and 12.5% self-reported problematic drinking habits in the Alcohol Use Disorder Identification Test (AUDIT; mean 3.0, SD 2.82, range 0-

9).

 A meaningful analysis of these subjective problems or neuropsychological tests data in relation neuroimaging data is not yet possible due to the small sample size.

Challenges:

After getting underway with recruitment and running of our first few
participants, the MRI scanner had some technical difficulties. We opted to
halt further recruitment and data collection until the scanner issues were
resolved and we were assured of the quality of the neuroimaging scans.
These issues have been resolved and recruitment is once again underway.

KEY RESEARCH ACCOMPLISHMENTS

- Human subject approval was obtained early in the course of the study.
- Study preparations are completed.
- Advertisement, study recruitment and data collection started early and are ongoing.
- Data quality checks are ongoing.
- 10 complete data sets have been collected, with 4 subjects scheduled to take part in the study. Subjects are assessed within 3 days of their respective post-injury date.

REPORTABLE OUTCOMES

As of 1 OCT 2013, the study sample is yet too small to conduct meaningful statistical analyses. This is particularly true for group comparisons.

CONCLUSION

The study is progressing as planned. Of note, study preparations were completed ahead of schedule, meaning that advertisement, study recruitment, and data collection were started sooner than anticipated. As of 1 OCT 2013, data collection is actively underway but the sample is currently too small to conduct meaningful data analysis of the behavioral data in relation to neuroimaging data or time since injury. At present, the sample descriptive data suggest that our projected sample will be well matched to the published literature in terms of level of functional recovery. However, despite good overall functional recovery, our subjects with a history of TBI present with a wide range of subjective deficits including sleep problems, depression, and problematic alcohol use. Additional data collection is needed to relate these behavioral data to neuroimaging (i.e., diffusion-weighted imaging, resting-state functional connectivity) and time since injury (i.e., comparing the 5 different post-injury intervals and healthy controls). Given the early successes in study preparations and data collection, this study has a high likelihood of yielding conclusions on the relationships between time since injury, subjective problems, and structural and functional brain connectivity.

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A Model for Predicting Cognitive and Emotional Health from Structural and Functional Neurocircuitry Following Traumatic Brain Injury

Study Tasks and Assessments

California Verbal Learning Test (CVLT)

Brief Visual Memory Test-Revised (BVMT-R)

Delis-Kaplan Executive Function System (D-KEFS)

Glasgow Outcome Scale – Extended (GOS-E)

Repeatable Battery for the Assessment of Neuropsychological Status (RBANS)

Automated Neuropsychological Assessment Metrics (ANAM)

Psychomotor Vigilance Test (PVT)

Go/No Go

Connor- Davidson Resilience Scale (CD-RISC)

Beck Depression Inventory (BDI-II)

Snaith Hamilton Pleasure Scale (SHAPS)

State Trait Anxiety Inventory (STAI)

Personality Assessment Inventory (PAI)

Craig Handicap Assessment and Reporting Technique Short Form (CHART-SF)

MINI International Psychiatric Interview (MINI)

Wechsler Abbreviated Scale of Intelligence (WASI II)

TBI Interview

Rivermead Post Concussion Symptoms Questionnaire (RPCSQ)

Satisfaction With Life Scale (SWLS)

Alcohol Use Disorder Identification Test (AUDIT)

Day of Scan Questionnaire

Epworth Sleepiness Scale (ESS)

Pittsburgh Sleep Quality Index (PSQI)

Buss Perry Aggression

A Model for Predicting Cognitive and Emotional Health from Structural and Functional

Neurocircuitry following Traumatic Brain Injury

PT110814

W81XWH-12-1-0386

PI: William D. Killgore, Ph.D. Org: McLean Hospital



Award Amount: \$2.272.098

different natural recovery stages contributes to functional

Study/Product Aim(s)

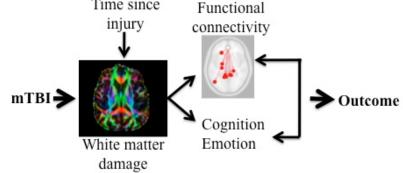
- Demonstrate the extent to which structural white matter damage explains abnormalities in cognition and emotion at different recovery stages following mild traumatic brain injury (TBI).
- Demonstrate the extent to which structural white matter damage explains abnormalities in functional connectivity at different recovery stages following mild TBI.
- Determine whether white matter disintegrity could server as an objective marker for mild TBI.

Approach

Cross-sectional study involves comprehensive neuropsychiatric and neuropsychological assessment of 30 healthy controls and 150 individuals with mild TBI, of which 30 each will assessed at 2 weeks, 1 month, 3 months, 6 months, and 12 month post-TBI. All participants undergo diffusion-weighted imaging and resting-state functional connectivity imaging.

connectivity, cognition and emotion. Time since Functional injury connectivity

The study investigates whether and how white matter damage at 5



Accomplishments: Completed study preparations including human subjects approval. Started advertisement, study recruitment and data collection earlier than anticipated. To date, 10 complete data sets have been collected.

Timeline and Cost

Activities CY	13	14	15	16
Study preparations				
Data collection				
Data quality check		l I	 	
Data analysis/ dissemination				
Estimated Budget (\$2,272K)	\$532K	\$601K	\$603K	\$536K

Updated: 11 OCT 2013

Goals/Milestones (Example)

CY13 Goal – Study preparations, human subjects approval, start study recruitment and data collection

☑ Completed study preparations early, started data collection early

CY14 Goals - Data collection, quality checks

☐ Test approximately 60 subjects per CY

CY15 Goal - Data collection

☐ Test approximately 60 subjects per CY

CY16 Goal - Data analysis and dissemination

☐ Conduct final data analyses and prepare data for publication

Comments/Challenges/Issues/Concerns

- MRI scanner repeatedly down, required postponing of study participation of several subjects
- Data collection expected to increase in coming year

Budget Expenditure to Date

Projected Expenditure: \$531,783 Actual Expenditure: \$188,303

CLINICAL ASSESSMENT



California Verbal Learning Test® - Second Edition (CVLT® -II)

Author(s): Dean C. Delis, Joel H. Kramer, Edith Kaplan, Beth A. Ober

Obtain a detailed and comprehensive assessment of verbal learning and memory

At a Glance:

• Administration: Standard and Alternate Forms: 30 minutes testing plus 30 minutes of delay. Short Form: 15 minutes testing plus 15 minutes of delay.

Software Available: Yes
Qualification level: C-Level
Publication Date: 2000
Ages / Grades: 16 to 89 years

Norms: Nationally normed on a representative sample
 Forms: Short Form, Standard Form, Alternate Form

Product Summary

Overview

Obtain the most comprehensive and detailed assessment of verbal learning and memory available for older adolescents and adults.

A revision of the classic test of verbal learning and memory, the California Verbal Learning Test—Second Edition (CVLT-II) includes:

- · More comprehensive information provided by new items
- · Flexible administration with new Short and Alternate Forms
- Expanded age range for broader usage
- Correlation with the Wechsler Abbreviated Scale of Intelligence™ (WASI™) for valuable comparative data
- · Technologically advanced scoring system

More Comprehensive Information

New items provide more comprehensive information than ever before. Examinees are read a list of words, selected after careful study of their frequency of use across multiple demographic variables, and asked to recall them across a series of trials. In addition to recall and recognition scores, CVLT–II measures encoding strategies, learning rates, error types, and other process data. CVLT–II includes forced-choice items useful for detecting malingering, thereby helping to reduce false results.

Flexible Administration

New options provide flexibility in test administration. You can use the Short Form when exam time is limited or when you need less detailed test information. The Short Form is also helpful when examinee fatigue is a concern, or severe memory or cognitive deficits make the Standard or Alternate Forms impractical. The Short Form features lists of nine words in three categories and takes only 15 minutes to administer (plus two delay periods totaling 15 minutes). The new Alternate Form prevents artificially inflated scores when retesting is necessary. The Standard and Alternate Forms can be administered in 30 minutes, with an additional 30-minute delay.

Expanded Sample

Extensive clinical data are available. New norms are available on a national sample of adults selected to represent the U.S. population. Norms are provided for individuals from ages 16 to 89, increasing the use of the new edition.

Correlated with Wechsler Abbreviated™

CVLT–II is correlated with the Wechsler Abbreviated Scale of Intelligence™ (WASI™), providing valuable comparison information about the effect of cognitive ability on verbal learning and memory.

Technologically Advanced Scoring System

The CVLT-II Comprehensive Scoring System provides rich information not available through typical hand scoring. The most technologically advanced scoring software yet, it offers multiple scoring options, varying from brief to highly detailed information.

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Details & Pricing

Products

California Verbal Learning Test® – Second Edition (CVLT® –II)

Qty Code Name Price
0158035720 CVLT-II - Complete Kit CD-ROM Version Kit - Includes Software package, Manual, 25 Standard Record Forms, 1 Alternate Record Form, and 25 Short Record Forms. \$675.00

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Accessories

CVLT-II - Manual

Qty Code Name Price

015-8035-739 CVLT-II - Manual \$145.00

CVLT-II - Record Forms

Code Price 015-8035-747 CVLT-II - Standard Record Forms - Pkg of 25 \$78.75

> CVLT-II - Short Record Forms - Pkg of 25 015-8035-763 \$69.00

> 015-8035-78X CVLT-II - Alternate Record Forms - Pkg of 25 \$78.75

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CVLT®-II Comprehensive Scoring System

Name Price Qty Software package, CD-ROM Package \$451.68

015-8035-801

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Related Products

Brief Visuospatial Memory Test-Revised (BVMT-R™)

Ralph H. B. Benedict, PhD, ABCN

Purpose: Measure visuospatial memory

Age range: 18 to 79 years Admin: Individual

Admin time: 45 minutes timed (includes 25-minute delay)

Scoring time: 25 minutes

Oualification level: C

Validity studies were conducted with patients who had HIV-1 associated cognitive dysfunction, primary progressive dementia, and focal amnesia.

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Qualification Levels

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Supplemental Product Resources

<u>Click here</u> for the BVMT-R bibliography. Note: You will need <u>Adobe® Reader®</u> to view the bibliography.

A measure of visuospatial memory, the BVMT-R can be used as part of a large neuropsychological battery, as a screening measure, and as a repeat measure to document changes over time.

Designed for easy administration in clinical settings or at the bedside

- Six equivalent, alternate stimulus forms consist of six geometric figures printed in a 2 x 3 array on separate pages.
- In three Learning Trials, the respondent views the stimulus page for 10 seconds and is asked to draw as many of the figures as possible in their correct location on a page in the response booklet. A Delayed Recall Trial is administered after a 25-minute delay.

Last, a Recognition Trial, in which the respondent is asked to identify which of 12 figures were included among the original geometric figures, is administered.

- An optional Copy Trial may be administered to screen for severe visuoconstructive deficits and to help in scoring recall responses.
- Reliability coefficients range from .96 to .97 for the three Learning trials, .97 for Total Recall, and .97 for Delayed Recall. Test-retest reliability coefficients range from .60 for Trial 1 to .84 for Trial 3. The BVMT-R correlates most strongly with other tests of visual memory and less strongly with tests of verbal memory.

Note: Stopwatch is required for administration.

Kits

Item number **Product description**



Manuals, Books, and Equipment

Item number	Product description	List price	
WW-10279-EM	Now Available! BVMT-R e-Manual e-Manuals are not returnable. Please see our FAQ before ordering e-Manuals.	\$51.00	Ţ.
WW-3608-TM	BVMT-R Professional Manual	\$60.00	Ϋ́
WW-3609-TC	BVMT-R Recognition Stimulus Booklet easel format	\$158.00	÷
WW-3610-TC	BVMT-R Reusable Recall Stimulus Booklet reusable	\$46.00	祌
WW-6023-TM	HVLT-R/BVMT-R Professional Manual Supplement	\$32.00	Ţ.

Forms and Booklets

Item number Product description List price

WW-3611-RF BVMT-R Response Forms (pkg/25)

\$70.00

Related Products

Hopkins Verbal Learning Test–Revised™ (HVLT-R™) Continuous Visual Memory Test (CVMT)

Hopkins Verbal Learning Test–Revised™/Brief Visuospatial Memory Test–Revised™ Software Portfolio (HVLT-R™/BVMT-R™ SP)

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Glasgow Outcome Scale - Extended

Patie	nt's name:		Date of interview:
Date	of Birth:	Date of injury	Gender: M/F
Age a	at injury:	Interval post-injury:	
Resp	ondent: Patient alone	Relative/ friend/ carer alone	Patient + relative/ friend/ carer
Inter	viewer:		
	CONSCIOUSNESS		
1.	Is the head injured person a words?	ble to obey simple commands, or say any	1 = No (VS) 2 = Yes
longe	er considered to be in the vege		rd or communicate specifically in any other way is no ble evidence of meaningful responsiveness. Corroborate yal College of Physician Guidelines.
	INDEPENDENCE IN THE	HOME	
2a	Is the assistance of another activities of daily living?	person at home essential every day for so	ome $1 = No$ $2 = Yes$
look on cl perso	after themselves. Independent ean clothes without prompting	ce includes the ability to plan for and carr g, preparing food for themselves, dealing	24 hours if necessary, though they need not actually ry out the following activities: getting washed, putting with callers, and handling minor domestic crises. The reminding, and should be capable of being left alone
2b	Do they need frequent help time?	or someone to be around at home most o	of the 1 = No (Upper SD) 2 = Yes (Lower SD)
	a 'No' answer they should be a not actually look after themse		up to 8 hours during the day if necessary, though they
2¢	Was assistance at home ess	ential before the injury?	1 No Property 1 1 2 - Yes
	INDEPENDENCE OUTSI	DE THE HOME	
3a	Are they able to shop without	out assistance?	l = No (Upper SD) 2 = Yes
	includes being able to plan w nally shop, but must be able to		s, and behave appropriately in public. They need not
755	- Were they able to shop will	neut assistance before the injury?	1 No 2 Yes
4a	Are they able to travel loca	lly without assistance?	1 = No (Upper SD) 2 = Yes
	y may drive or use public trans nselves and instruct the driver.		s sufficient, provided the person can phone for it
116	Were they able to travel wi	Rout assistance before the infility?	1 No 2 1 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1

WILSON ET AL.

	WORK		
5a	Are they currently able to work to their previous capacity?		1 = No 2 = Yes
the inj	were working before, then their current capacity for work should be at the same ury should not have adversely affected their chances of obtaining work or the level was a student before injury then their capacity for study should not have been as	el of work	for which they are eligible. If the
5b	How restricted are they? a) Reduced work capacity. b) Able to work only in a sheltered workshop or non-competitive job, or currently unable to work.		I = a (Upper MD) 2 = b (Lower MD)
5c 4	Were they either working or seeking employment before the injury (answer 'yes') or were they doing neither (answer 'no')?		1 = No 2 = Yes
	SOCIAL & LEISURE ACTIVITIES		
6a	Are they able to resume regular social and leisure activities outside home?		1 = No 2 = Yes
	need not have resumed all their previous leisure activities, but should not be preve ave stopped the majority of activities because of loss of interest or motivation the		
6b	What is the extent of restriction on their social and leisure activities?a) Participate a bit less: at least half as often as before injury.b) Participate much less: less than half as often.c) Unable to participate: rarely, if ever, take part.		1 = a (Lower GR) 2 = b (Upper MD) 3 = c (Lower MD)
6c 1	Did they engage in regular social and leisure activities outside home before the injury?	Er	1 = No $2 = Yes$ $1 = No$
	FAMILY & FRIENDSHIPS		
7a	Have there been psychological problems which have resulted in ongoing family disruption or disruption to friendships?		1 = No 2 = Yes
	al post-traumatic personality changes: quick temper, irritability, anxiety, insensitionable or childish behaviour.	vity to othe	ers, mood swings, depression, and
7b	 What has been the extent of disruption or strain? a) Occasional - less than weekly b) Frequent - once a week or more, but tolerable. c) Constant - daily and intolerable. 		1 = a (Lower GR) 2 = b (Upper MD) 3 = c (Lower MD)
	Were there problems with family or friends before the injury? • were some problems before injury, but these have become markedly worse since	e injury tik	1 - No. 12 - Yes 2 - Yes stranswer No. 10 0.76
	RETURN TO NORMAL LIFE	·	
8a	Are there any other current problems relating to the injury which affect daily life?		1 = No (Upper GR) 2 = Yes (Lower GR)
	typical problems reported after head injury: headaches, dizziness, tiredness, senses, and concentration problems.	itivity to n	oise or light, slowness, memory
86 i::468	Were similar problems present before the injury?	e ligues di	Film No. 2 - Yes engusyo No. (e. (20)

STRUCTURED INTERVIEWS FOR THE GOS AND GOSE

Epil	epsy:	
Sinc	ce the injury has the head injured person had any epileptic fit	s? No / Yes
Hav	e they been told that they are currently at risk of developing e	epilepsy? No / Yes
Wha	at is the most important factor in outcome?	
Effe	ects of head injury Effects of illness or injury to anothe	r part of the body A mixture of these
	ring: The patient's overall rating is based on the lowest outco delines for further information concerning administration and	<u> </u>
1	Dead	7
2	Vegetative State (VS)	
3	Lower Severe Disability (Lower SD)	_
4	Upper Severe Disability (Upper SD)	
5	Lower Moderate Disability (Lower MD)	
6	Upper Moderate Disability (Upper MD)	
7	Lower Good Recovery (Lower GR)	
8	Upper Good Recovery (Upper GR)	Lindsay Wilson, Laura Pettigrew, Graham Teasdale 1998



Christopher Randolph

Record Form A

Name		Age	Sex	Education Level
Examiner	Date of Testin	g		Ethnicity
Observations:			· · ·	

					<u> </u>		·	
	Immediate Memory	Visuospatial/ Constructiona	Language	Attention	Delayed Memory		Total , Scale	
Index Score								
Confidence Interval %						·		<u> </u>
Percentile								
Index Score 160 155 150 145 140 135 130 125 120 115 110 105 100 95 90 85 80 75 70 65 60 55 50 45 40					— իուվուդիուվուդիուկուդիուկուդիուկուդիուկուդիուկուդիուդիուդիուդիուդիուկուդիուդիուդիուդիուդիուդիուդիուդիուդիուդ	Percentile Rank >99.9 >99.9 >99.9 99.6 99 98 95 91 84 75 63 50 37 25 16 9 5 2 1 0.4 0.1 <0.1 <0.1 <0.1 <0.1		Total Scale Index Score 160 155 150 145 140 135 120 115 110 105 100 95 90 85 80 75 70 65 60 55 50 45 40



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WPsychCorp



List Learning

Trial 1

Say I am going to read you a list of words. I want you to listen carefully and, when I finish, repeat back as many words as you can. You don't have to say them in the same order that I do—just repeat back as many words as you can remember, in any order. Okay?

Trials 2-4

Say I am going to read the list again. When I finish, repeat back as many words as you can, even if you have already said them before. Okay?

Record responses in order.

Scoring: 1 point for each word correctly recalled on each trial.

List	Trial l	Trial 2	Trial 3	Trial 4
Market				
Package				
Elbow		**		
Apple				
Story				
Carpet				
Bubble			·	
Highway				
Saddle				
Powder				

Number Correct		+	+	+	=
Compet	Total Trial 1	Total Trial 2	Total Trial 3	Total Trial 4	Total Score Range=0-40

2 Story Memory

Trial 1

Say I am going to read you a short story. I'd like you to listen carefully and, when I finish, repeat back as much of the story as you can remember. Try and use the same wording, if you can. Okay?

Read the story below, then say Now repeat back as much of that story as you can.

Trial 2

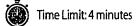
Say I am going to read that same story again. When I finish, I want you to again repeat back as much of the story as you can remember. Try to repeat it as exactly as you can.

Read the story below, then say Now repeat back as much of that story as you can.

Scoring: 1 point for *verbatim* recall of bold, italic words or alternatives, shown below in color within parentheses. Record intrusions or variations in the Responses column.

Story		Responses	Trial 1 Score (0 or 1)	Trial 2 Score (0 or 1)	Item Score (0-2)
1. On Tuesday,					
2. May	٠,				
3. Fourth,					
4. in <i>Cleveland,</i> Ohio,					
5. a 3 alarm					
6. <i>fire</i> broke out.					
7. Two					
8. hotels					
9. and a <i>restaurant</i>					
10. were destroyed					
11. before the <i>firefighters (fire</i>	men)				
12. were able to extinguish it (put it out).				
	I		<u> </u>	Total Score	

(Trial 1 + Trial 2) Range=0-24



Fold this page back and present the Figure Copy Drawing Page along with the stimulus. Ask the examinee to make an exact copy of the figure. Tell the examinee that he or she is being timed, but that the score is based *only* on the exactness of his or her copy.

Scoring: 1 point for correctness and completeness (drawing), and 1 point for proper placement. See Appendix 1 in Stimulus Booklet A for complete scoring criteria and scoring examples.

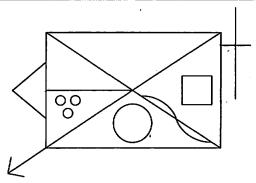


Figure Copy Criteria

(Fold back for use.)

Item	Drawing (0 or 1)	Placement (0 or 1)	Score (0, 1, or 2)	Scoring Criteria
1. rectangle				Drawing: lines are unbroken and straight; angles 90 degrees; top/bottom lines 25% longer than sides Placement: not rotated more than 15 degrees
2. diagonal cross				Drawing: lines are unbroken and straight and should approximately bisect each other Placement: ends of lines should meet corners of the rectangle without significant overlap or measurable distance between the ends of the lines and the corners
3. horizontal line				Drawing : line is unbroken and straight; should not exceed 1/2 the length of the rectangle Placement: should bisect left side of the rectangle at approximately a right angle and intersect the diagonal cross
4. circle				Drawing: round, unbroken and closed; diameter should be approximately 1/4-1/3 height of rectangle Placement: placed in appropriate segment; not touching any other part of figure
5. 3 small circles				Drawing: round, unbroken and closed; equal size; triangular arrangement; not touching each other Placement: in appropriate segment; not touching figure; triangle formed not rotated more than 15 degrees
6. square				Drawing: must be closed; 90 degree angles; lines straight and unbroken; height is 1/4–1/3 height of rectangle Placement: in appropriate segment; not touching any other part of figure; not rotated more than 15 degrees
7. curving line				Drawing: 2 curved segments are approximately equal in length and symmetrical; correct direction of curves Placement: ends of line touch diagonal; do not touch corner of rectangle or intersection of diagonal lines
8. outside cross				Drawing: vertical line of the outside cross is parallel to side of rectangle; >1/2 the height of rectangle; horizontal line crosses vertical at 90 degree angle and is between 20–50% of length of vertical line Placement: horizontal line of outside cross touches rectangle higher than 2/3 the height of rectangle, but below top; does not penetrate the rectangle
9. triangle				Drawing: angle formed by 2 sides of triangle is between 60–100 degrees; sides are straight, unbroken and meet in a point; distance on vertical side of rectangle subsumed by triangle is approximately 50% of the height of vertical side Placement: roughly centered on the left vertical side of the rectangle
10. arrow			·	Drawing: straight and unbroken; lines forming arrow are approximately equal in length and not more than 1/3 length of staff Placement: must protrude from appropriate corner of rectangle such that staff appears to be continuation of diagonal cross

Total Score Range=0-20

Figure Copy Drawing Page (Fold back for use.)								
· ·								
		.•						
	r e		•					
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·								
-		·						
•		No. 1						
								



4 Line Orientation



Time Limit: 20 seconds/item

Present the sample item, and say *These two lines down here* (indicate) *match two of the lines on top. Can you tell* me the numbers, or point to the lines that they match? Correct any errors and make sure the examinee understands the task. Continue with Items 1-10.

Scoring: 1 point for each line correctly identified.

Item	Responses	Correct Responses	Score (0, 1, or 2)
Sample		1,7	
1.		10, 12	
2.		4, 11	
3.		6, 9	
4.		8, 13	
5.		2, 4	

Item	Responses	Correct Responses	Score (0, 1, or 2)
6.		1, 6	
7.		3, 10	
8.		5, 8	
9.'		1, 3	
10.		11, 13	
		Total Score Range=0-20	

Picture Naming



Time Limit: 20 seconds/item

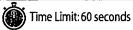
Ask the examinee to name each picture. Give the semantic cue only if the picture is obviously misperceived.

Scoring: 1 point for each item that is correctly named spontaneously or following semantic cue.

g Item	Semantic Gue	Responses	Score () (0 or 1)
1. chair	a piece of furniture		
2. pencil	used for writing		
3. well	you get water from it		
4. giraffe	an animal		
5. sailboat	used on the water (if "boat," query "what kind")		
6. cannon	a weapon, used in war		
7. pliers	a tool		
8. trumpet	a musical instrument ("cornet" okay)		
9. clothespin	used to hold laundry on a line		
10. kite	it's flown in the air		

Total Score Range=0-10

6 Semantic Fluency



Say Now I'd like you to tell me the names of all of the different kinds of fruits and vegetables that you can think of. I'll give you one minute to come up with as many as you can. Ready?

Scoring: 1 point for each correct response.

1	. 11	21	31.
			32
3	13	23	33
4	14	24	34
5	15	25	35
6	16	26	36
7	17	27	37
8	. 18	28	38
9	19	29	39.
10.	20.	30	40

Total Score Range=0-40	
range-0 10	

7 Digit Span

Say I am going to say some numbers, and I want you to repeat them after me. Okay?

Read the numbers at the rate of 1 per second. Only read the second string in each set if the first string was failed.

Discontinue after failure of both strings in any set.

Scoring: 2 points for the first string correct, 1 point for the second string correct, and 0 points for both strings failed.

	String Score (0 or 2)	Second String	String Score (0 or 1)	Item Score (0-2)
1. 4 9		5—3		
2. 8—3—5		2-4-1		
3. 7—2—4—6		1638		
4. 53924		3-8-4-9-1		
5. 6-4-2-9-3-5		9-1-5-3-7-6		
6. 2—8—5—1—9—3—7		5-3-1-7-4-9-2		
7. 8—3—7—9—5—2—4—1		9-5-1-4-2-7-3-8		
8. 1—5 —9—2—3—8—7—4—6		5—1—9—7—6—2—3—6—5		·

Total Score Range=0-16







Say Look at these boxes (indicate key). For each one of these marks there is a number that goes with it. Down here there are marks, but no numbers. I want you to fill in the number that goes with each mark.

Demonstrate the first three. Say **Now I would like you to fill in the rest of these boxes up to the double lines** (indicate) **for practice.** Correct any errors as they are made. Make sure that the examinee understands the task and has correctly completed the sample items before you begin timing.

Say Now I would like you to continue to fill in the numbers that match the marks. Go as quickly as you can without skipping any. When you reach the end of the line, go on to the next one. Ready? Go ahead.

Redirect the examinee to the task if he or she becomes distracted. If the examinee is unable to comprehend the task, the subtest score is 0.

Scoring: 1 point for each item correctly coded within 90 seconds (do not score the sample items).

Note: Familiarize yourself with these instructions before administering this subtest.

Total Score Range=0-89

9 List Recall

Say Do you remember the list of words that I read to you in the beginning? Tell me as many of those words as you can remember now.

Scoring: 1 point for each word correctly recalled.

List (Do not read.)	Response	Score (0 or 1)
Market		
Package		
Elbow		
Apple		
Story		
Carpet		
Bubble		
Highway		
Saddle		
Powder		
	Total Score Range=0-10	

	10 I	_ist	Recog	nition
--	-------------	------	-------	--------

Say I'm going to read you some words. Some of these words were on that list, and some of them weren't. I want you to tell me which words were on the list. For each word, ask Was______ on the list?

Scoring: 1 point for each word correctly identified. Circle the letter corresponding to examinee's response (y = yes, n = no); bold, capitalized (Y, N) letter indicates correct response.

List	Circle	One	List	Circle	One	List	Circle	One	List	Circ	le One
1. Apple	Y	n	6. sailor	у	N	11. Bubble	Y	n	16. Saddle	Y	n
2. honey	у	N	7. velvet	у	N	12. prairie	у	N	17. Powder	Y	n
3. Market	Y	n,	8. Carpet	Y	n	13. Highway	Y	n	18. angel	у	N
4. Story	Y	n	9. valley	у	N	14. oyster	у	N	19. Package	Y	n
5. fabric	у	N	10. Elbow	Υ	n	15. student	у	N	20. meadow	у	N

Total Score Range=0-20

Story Recall

Say: Do you remember that story about a fire that I read to you earlier? Tell me as many details from the story as you can remember now.

Scoring: 1 point for each verbatim recall of bold, italic words or alternatives, shown below in color within parentheses. Record intrusions or variations in the Responses column.

Story (Do not read.)	Responses	Item Score (0 or 1)
1. On Tuesday,		
2. May		
3. Fourth,		
4. in <i>Cleveland</i> , Ohio,		
5. a 3 alarm		
6. <i>fire</i> broke out.		
7. Two		
8. hotels		
9. and a restaurant		
10. were destroyed		
11. before the <i>firefighters (firemen)</i>		
12. were able to extinguish it (put it out).		
	Total Score Range=0-12	

12 Figure Recall

Say Do you remember that figure that I had you copy? I want you to draw as much of it as you can remember now.
If you remember a part, but you're not sure where it goes, put it anywhere. Try to draw as much of it as you can.

Now, present the Figure Recall Drawing Page.

Scoring: 1 point for correctness and completeness (drawing), and 1 point for proper placement. See Appendix 1 in Stimulus Booklet. A for complete scoring criteria and scoring examples.

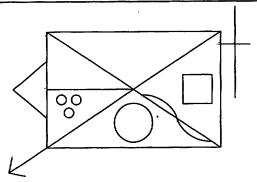


Figure Recall Criteria

(Fold back for use.)

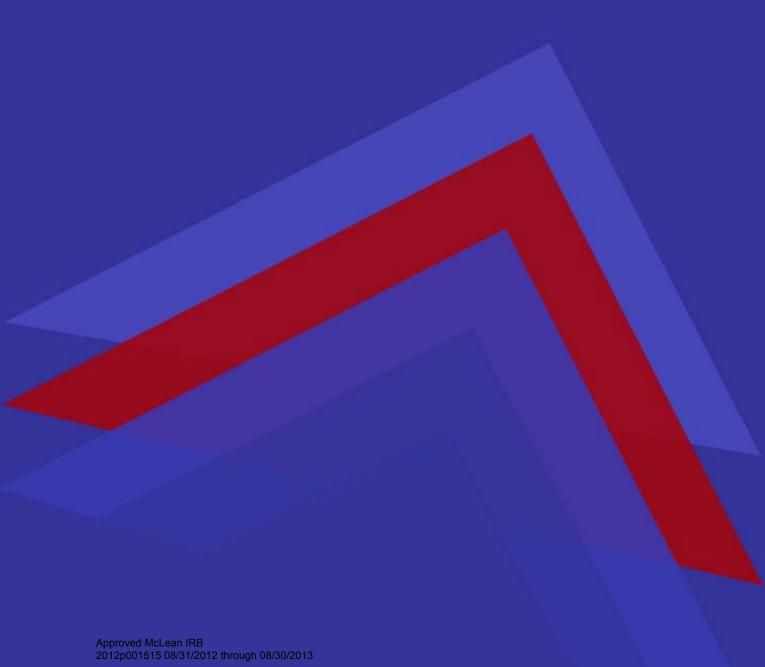
Item	Drawing (0 or 1)		Score (0, 1, or 2)	Scoring Criteria
1. rectangle				Drawing: lines are unbroken and straight; angles 90 degrees; top/bottom lines 25% longer than sides Placement: not rotated more than 15 degrees
2. diagonal cross				Drawing: lines are unbroken and straight and should approximately bisect each other Placement: ends of lines should meet corners of the rectangle without significant overlap or measurable distance between the ends of the lines and the corners
3. horizontal line				Drawing: line is unbroken and straight; should not exceed 1/2 the length of the rectangle Placement: should bisect left side of the rectangle at approximately a right angle and intersect the diagonal cross
4. circle				Drawing: round, unbroken and closed; diameter should be approximately 1/4-1/3 height of rectangle Placement: placed in appropriate segment; not touching any other part of figure
5. 3 small circles				Drawing: round, unbroken and closed; equal size; triangular arrangement; not touching each other Placement: in appropriate segment; not touching figure; triangle formed not rotated more than 15 degrees
6. square				Drawing: must be closed; 90 degree angles; lines straight and unbroken; height is 1/4–1/3 height of rectangle Placement: in appropriate segment; not touching any other part of figure; not rotated more than 15 degrees
7. curving line				Drawing: 2 curved segments are approximately equal in length and symmetrical; correct direction of curves Placement: ends of line touch diagonal; do not touch corner of rectangle or intersection of diagonal lines
8. outside cross				Drawing: vertical line of the outside cross is parallel to side of rectangle; >1/2 the height of rectangle; horizontal line crosses vertical at 90 degree angle and is between 20–50% of length of vertical line Placement: horizontal line of outside cross touches rectangle higher than 2/3 the height of rectangle, but below top; does not penetrate the rectangle
9. triangle				Drawing: angle formed by 2 sides of triangle is between 60–100 degrees; sides are straight, unbroken and meet in a point; distance on vertical side of rectangle subsumed by triangle is approximately 50% of the height of vertical side Placement: roughly centered on the left vertical side of the rectangle
10. arrow				Drawing: straight and unbroken; lines forming arrow are approximately equal in length and not more than 1/3 length of staff Placement: must protrude from appropriate corner of rectangle such that staff appears to be continuation of diagonal cross
	Tot	al Score		

Figure Recall Drawing Page (Fold back for use.)						
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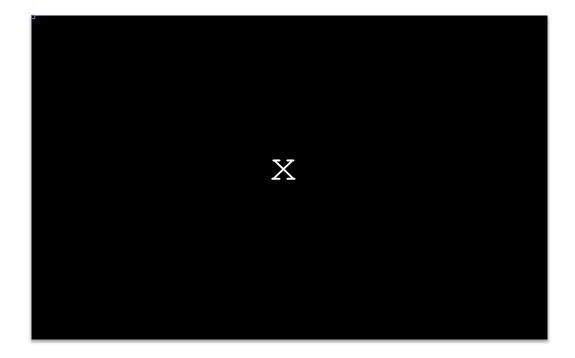
ANAM4TM

Automated Neuropsychological Assessment Metrics



Psychomotor Vigilance Test

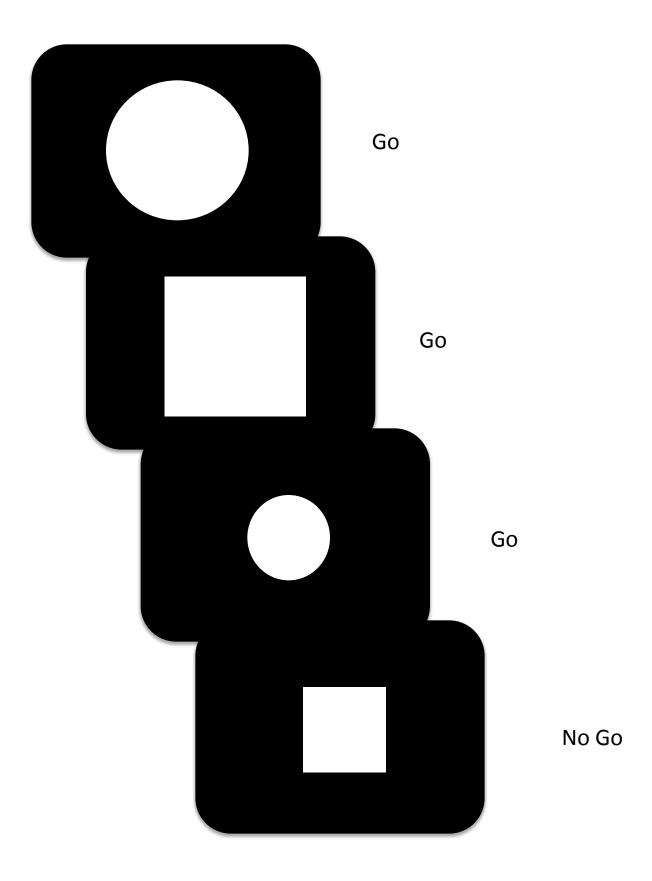
Press the spacebar every time an "x" appears on the screen.







Go/No-Go Task



CD-RISC

Subject:		Date:	Tir	Time:	
	of the following	feeling over the pas g statements for how		_	
0 not true at all	1 rarely true	2 sometimes true	3 often true	4 true nearly all the time	
1 Able t 2 Close	_				
 Somet Can de 		•			
5 Past s6 See th	· ·	idence for new challer of things	nge		
7 Copin 8 Tend	_	ngthens fter illness or hardship)		
9 Thing 10 Best e	ffort no matter w	hat			
	things look hope	less, I don't give up			
13 Know 14 Under	pressure, focus a	-			
16 Not ea 17 Think	asily discouraged	by failure			
18 Make 19 Can ha	unpopular or diff	ficult decisions			
20 Have to 21 Strong	to act on a hunch	-			
22 In con 23 I like o	itrol of your life				
24 You w 25 Pride	_	_			

Participant #:	
Date:	

BDI - II

This questionnaire consists of 21 groups of statements. Please read each group of statements carefully, and then pick out the <u>ONE STATEMENT</u> in each group that bests describes the way you have been feeling during the <u>PAST TWO WEEKS</u>, <u>INCLUDING TODAY</u>. Circle the number beside the statement you have picked. If several statements in the group seem to apply equally well, circle the highest number for that group. Be sure that you do not choose more than one statement for any group, including Item 16 (Changes in sleeping pattern) or Item 18 (Changes in Appetite).

1. Sadness

- 0 I do not feel sad.
- 1 I feel sad much of the time.
- 2 I am sad all the time
- 3 I am so sad or unhappy that I can't stand it.

2. Pessimism

- 0 I am not discouraged about my future.
- 1 I feel more discouraged about my future than I used to be.
- 2 I do not expect things to work out for me.
- 3 I feel that my future is hopeless and will only get worse.

3. Past Failure

- 0 I do not feel like a failure.
- 1 I have failed more than I should have.
- 2 As I look back, I see a lot of failures.
- 3 I feel I am a total failure as a person.

4. Loss of Pleasure

- 0 I get as much pleasure as I ever did from the things I enjoy.
- 1 I don't enjoy things as much as I used to.
- 2 I get very little pleasure from the things I used to enjoy.
- 3 I can't get any pleasure from the things I used to enjoy.

5. Guilty Feelings

- 0 I don't feel particularly guilty.
- 1 I feel guilty over many things I have done or should have done.
- 2 I feel quite guilty most of the time.
- 3 I feel guilty all of the time.

6. Punishment Feelings

- 0 I don't feel I am being punished.
- 1 I feel I may be punished.
- 2 I expect to be punished.
- 3 I feel I am being punished.

7. Self-Dislike

- 0 I feel the same about myself as ever.
- 1 I have lost confidence in myself.
- 2 I am disappointed in myself.
- 3 I dislike myself.

8. Self-Criticalness

- 0 I don't criticize or blame myself more than usual.
- 1 I am more critical of myself than I used to be.
- 2 I criticize myself for all of my faults.
- 3 I blame myself for everything bad that happens.

9. Suicidal Thoughts or Wishes

- 0 I don't have any thoughts of killing myself.
- 1 I have thoughts of killing myself, but I would not carry them out.
- 2 I would like to kill myself.
- 3 I would kill myself if I had the chance.

10. Crying

- 0 I don't cry any more than I used to.
- 1 I cry more than I used to
- 2 I cry over every little thing.
- 3 I feel like crying, but I can't.

11. Agitation

- 0 I am no more restless or wound up than usual.
- 1 I feel more restless or wound up than usual.
- 2 I am so restless or agitated that it's hard to stay still.
- 3 I am so restless or agitated that I have to keep moving or doing something.

12. Loss of Interest

- 0 I have not lost interest in other people or activities
- 1 I am less interested in other people or things than before.
- 2 I have lost most of my interest in other people or things
- 3 It's hard to get interested in anything.

13. Indecisiveness

- 0 I make decisions about as well as ever.
- 1 I find it more difficult to make decisions than usual.
- 2 I have much greater difficulty in making decisions than I used to.
- 3 I have trouble making any decisions.

14. Worthlessness

- 0 I don't feel I am worthless.
- 1 I do not consider myself as worthwhile and useful as I used to.
- 2 I feel more worthless as compared to other people.
- 3 I feel utterly worthless.

15. Loss of Energy

- 0 I have as much energy as ever.
- 1 I have less energy than I used to have.
- 2 I don't have enough energy to do very much.
- 3 I don't have enough energy to do anything.

16. Changes in Sleeping Pattern

0	I have not experienced any change in my sleeping pattern.
1a	I sleep somewhat more than usual.
1b	I sleep somewhat less than usual.
2a	I sleep a lot more than usual.
2b	I sleep a lot less than usual.
3a	I sleep most of the day.
3b	I wake up 1-2 hours early and can't get back to sleep.

17. Irritability

- 0 I am no more irritable than usual.
- 1 I am more irritable than usual.
- 2 I am much more irritable than usual.
- 3 I am irritable all the time.

18. Changes in Appetite

I have not experienced any change in my appetite
My appetite is somewhat less than usual.
My appetite is somewhat greater than usual.
My appetite is much less than before.
My appetite is much greater than usual.

19. Concentration Difficulty

3a I have no appetite at all.3b I crave food all the time.

- 0 I can concentrate as well as ever.
- 1 I can't concentrate as well as usual.
- 2 It's hard to keep my mind on anything for very long.
- 3 I find I can't concentrate on anything.

20. Tiredness or Fatigue

- 0 I am no more tired or fatigued than usual.
- 1 I get more tired or fatigued more easily than usual.
- 2 I am too tired or fatigued to do a lot of the things I used to do.
- 3 I am too tired or fatigued to do most of the things I used to do.

21. Loss of interest in Sex

- 0 I have not noticed any recent change in my interest in sex.
- 1 I am less interested in sex than I used to be.
- 2 I am much less interested in sex now.
- 3 I have lost interest in sex completely.

Subject ID:	Session:	Study:	Date:/

Snaith-Hamilton Pleasure Scale

This questionnaire is designed to measure your ability to experience pleasure in the last few days. It is important to read each statement very carefully.

Circle the answer that corresponds to how much you agree or disagree with each statement.

1.	I would enjoy my favorite television or radio programS	trongly Disagree	Disagree	Agree	Strongly Agree
2.	I would enjoy being with my family or close friends	Definitely Agree	Agree	Disagree	Strongly Disagree
3.	I would find pleasure in my hobbies and past-timesS	trongly Disagree	Disagree	Agree	Strongly Agree
4.	I would be able to enjoy my favorite meal	Definitely Agree	Agree	Disagree	Strongly Disagree
5.	I would enjoy a warm bath or refreshing shower	Definitely Agree	Agree	Disagree	Strongly Disagree
6.	I would find pleasure in the scent of flowers or the smell of a fresh sea breeze or freshly baked bread	trongly Disagree	Disagree	Agree	Strongly Agree
7.	I would enjoy seeing other people's smiling faces.	Definitely Agree	Agree	Disagree	Strongly Disagree
8.	I would enjoy looking smart when I have made an effort with my appearance.	trongly Disagree	Disagree	Agree	Strongly Agree
9.	I would enjoy reading a book, magazine, or newspaper	Definitely Agree	Agree	Disagree	Strongly Disagree
10.	I would enjoy a cup of tea or coffee or my favorite drink	trongly Disagree	Disagree	Agree	Strongly Agree
11.	I would find pleasure in small things, e.g. bright sunny day, a telephone call from a friend	trongly Disagree	Disagree	Agree	Strongly Agree
12.	I would be able to enjoy a beautiful landscape or view	Definitely Agree	Agree	Disagree	Strongly Disagree
13.	I would get pleasure from helping others	trongly Disagree	Disagree	Agree	Strongly Agree
14.	I would feel pleasure when I receive praise from other peopleI	Definitely Agree	Agree	Disagree	Strongly Disagree

Na	Date:Date:	·
ar to	ECTIONS: A number of statements which people have used to describe themselves given below. Read each statement and then circle the appropriate number the right of the statement to indicate how you feel right now, THAT IS, at s moment.	
Do sta	re are no right or wrong answers. not spend too much time on any one tement but give the answer which ms to describe your present lings best.	Very much so
1.	I feel calm	4
2.	I feel secure	4
3.	I am tense	4
4.	I feel regretful	4
5.	I feel at ease	4
6.	I feel upset	4
7.	I am presently worrying over possible misfortunes	4
8.	I feel rested	4
9.	I feel anxious	4
10.	I feel comfortable	4
11.	I feel self-confident	4
12.	I feel nervous	4
13.	I am jittery	4
14.	I feel "high strung"	4
15.	I am relaxed	4
16.	I feel content	4
17.	I am worried	4
18	I feel over-excited and "rattled" 2 3	4
19.	I feel joyful 2 3	4
20	I feel pleasant	4

NA	ME	DATE_		-		
~ ~ ~	RECTIONS: A number of statements which people have used te given below. Read each statement and then circle the aponght of the statement to indicate how you generally feel.	o des propr	cribe iate >	themse number	elves to the	ΙΛ
Do one whi	not spend too much time on any e statement but give the answer ich seems to describe how you herally feel.		lmost never	Sometimes	Often	Almost always
21.	I feel pleasant		1	2	3	4
22.	I tire quickly		I	2	3	4
23.	I feel like crying		1	2	3	4
24.	I wish I could be as happy as others seem to be		1	2	3	4
25.	I am losing out on things because I can't make up my mind soon enough		I	2	3	4
26.	I feel rested		1	2	3	4
27.	I am "calm, cool, and collected"		1	· 2	3	4
28.	I feel that difficulties are piling up so that I cannot overcome them		1	2	3	4
29.	I worry too much over something that really doesn't matter		1	2	3	4
30.	I am happy		1	2	3	4
31.	I am inclined to take things hard		1	2	3	4
32.	I lack self-confidence		1	2	3	4
33.	I feel secure		1	2	. 3	4
34.	I try to avoid facing a crises or difficulty		1	2	3	4
35.	I feel blue,		l	. 2	3	4
36.	I am content		1	2	3	4
37.	Some unimportant thought runs through my mind and bothers me		1	2	3	4
8.	I take disappointments so keenly that I can't put them out of my mind		1	2	3	4
-	I am a steady person		l	2	3	4
0.	I get in a state of tension or turmoil as I think over my recent concerns and interests		1	2	3	4

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administer; 15-20 minutes

to score

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With its newly revised Professional Manual, Profile Form Adults-Revised, and Critical Items Form-Revised, the PAI[®] continues to raise the standard for the assessment of adult psychopathology. This objective inventory of adult personality assesses psychopathological syndromes and provides information relevant for clinical diagnosis, treatment planning, and screening for psychopathology. Since its introduction, the PAI has been heralded as one of the most important innovations in the field of clinical assessment.

PAI[®] Scales and Subscales

The 344 PAI items constitute 22 nonoverlapping scales covering the constructs most relevant to a broad-based assessment of mental disorders: 4 validity scales, 11 clinical scales, 5 treatment scales, and 2 interpersonal scales. To facilitate interpretation and to cover the full range of complex clinical constructs, 10 scales contain conceptually derived subscales.

The PAI Clinical scales were developed to provide information about critical diagnostic features of 11 important clinical constructs. These 11 scales may be divided into three broad classes of disorders: those within the neurotic spectrum, those within the psychotic spectrum, and those associated with behavior disorder or impulse control problems.

The Treatment scales were developed to provide indicators of potential complications in treatment that would not necessarily be apparent from diagnostic information. These five scales include two indicators of potential for harm to self or others, two measures of the respondent's environmental circumstances, and one indicator of the respondent's motivation for treatment.

The Interpersonal scales were developed to provide an assessment of the respondent's interpersonal style along two dimensions: a warmly affiliative versus a cold rejecting style, and a dominating/controlling versus a meekly submissive style. These axes provide a useful way of conceptualizing many different mental disorders: persons at the extremes of these dimensions may present with a variety of disorders. A number of studies provide evidence that diagnostic groups differ on these dimensions.

The PAI includes a Borderline Features scale and an Antisocial Features scale. Both of these scales specifically assess character pathology. The Borderline Features scale is the only PAI scale that has four subscales, reflecting the factorial complexity of the construct. The Antisocial Features scale includes a total of three facets: one assessing antisocial behaviors, and the other two assessing antisocial traits.

Rating Form

WHAT ASSISTANCE DO YOU NEED?

People with disabilities often need assistance. We would like to differentiate between personal care for physical disabilities and supervision for cognitive problems. First, focus on physical "hands on" assistance: This includes help with eating, grooming, bathing, dressing, management of a ventilator or other equipment, transfers etc. Keeping in mind these daily activities...

1. How many hours in a typical 24-hour day do you have someone with you to provide physical assistance for the provide physical physica

1.	How many hours in a typical 24-hour day do you have someone with you to provide physical assistance for personal care activities such as eating, bathing, dressing, toileting and mobility?
	hours paid assistance hours unpaid (family, others)
	ocus on supervision for cognitive problems instead of physical assistance. This includes remembering, on making, judgment, etc
2.	How much time is someone with you in your home to assist you with activities that require remembering, decision making, or judgment?
	Someone else is always with me to observe or supervise. Someone else is always around, but they only check on me now and then. Sometimes I am left alone for an hour or two. Sometimes I am left alone for most of the day I have been left alone all day and all night, but someone checks in on me. I am left alone without anyone checking on me.
3.	How much of the time is someone with you to help you with remembering, decision making, or judgment when you go away from your home?
	I am restricted from leaving, even with someone else. Someone is always with me to help with remembering, decision making or judgment when I go anywhere. I go to places on my own as long as they are familiar. I do not need help going anywhere.
	have a series of questions about your typical activities. OU UP AND ABOUT REGULARLY?
4.	On a typical day, how many hours are you out of bed?hours
5.	In a typical week, how many days do you get out of your house and go somewhere?days
6.	In the last <u>year</u> , how many nights have you spent away from your home (excluding hospitalizations?) [0] none [1] 1-2 [3] 3-4 [5] 5 or more
HOW I	DO YOU SPEND YOUR TIME?
7.	How many hours per week do you spend working in a job for which you get paid? hours(occupation:)
8.	How many hours per week do you spend in school working toward a degree or in an accredited technical training program (including hours in class and studying)? Hours
9.	How many hours per week do you spend in active homemaking including parenting, housekeeping, and food preparation? Hours

10.	How many hours per week do you spend in home maintenance activities such as gardening, house repairs or home improvement? Hours
11.	How many hours per week do you spend in recreational activities such as sports, exercise, playing cards, o going to movies? Please do not include time spent watching TV or listening to the radioHours
WITH	I WHOM DO YOU SPEND TIME?
12.	How many people do you live with?
13.	Is one of them your spouse or significant other? [1] Yes [0] No [9] Not applicable (subject lives alone)
14.	Of the people you live with how many are relatives?
15.	How many business or organizational associates do you visit, phone, or write to at least once a month? associates
16.	How many friends (non-relatives contacted outside business or organizational settings) do you visit, phone or write to at least once a month?friends
17.	With how many strangers have you initiated a conversation in the last month (for example, to ask information or place an order)?
	[0] none [1] 1-2 [3] 3-5 [6] 6 or more
WHA	T FINANCIAL RESOURCES DO YOU HAVE?
18.	Approximately what was the combined annual income, in the last year, of all family members in your household? (consider all sources including wages and earnings, disability benefits, pensions and retirement income, income from court settlements, investments and trust funds, child support and alimony, contributions from relatives, and any other source.)
	a. Less than 25,000 - If no ask e; if yes ask b b. Less than 20,000 - If no code 22500; if yes ask c c. Less than 15,000 - If no code 17500; if yes ask d d. Less than 10,000 - If no code 12500; if yes code 5000 e. Less than 35,000 - If no ask f; if yes code 30000 f. Less than 50,000 - If no ask g; if yes code 42500 g. Less than 75,000 - If no code h; if yes code 62500 h. 75,000 or more code 80000
19.	Approximately how much did you pay last year for medical care expenses? (Consider any amounts paid by yourself or the family members in your household and not reimbursed by insurance or benefits.)
	"Would you say your unreimbursed medical expenses are"
	 a. Less than 1000 if "no" ask b if "yes" code 500. b. Less than 2500 if "no" ask c if "yes" code 1750. c. Less than 5000 if "no" ask d if "yes" code 3750. d. Less than 10000 if "no" code e if "yes" code 7500. e. 10000 or more code 15000

M.I.N.I.

MINI INTERNATIONAL NEUROPSYCHIATRIC INTERVIEW

English Version 6.0.0

DSM-IV

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DISCLAIMER

Our aim is to assist in the assessment and tracking of patients with greater efficiency and accuracy. Before action is taken on any data collected and processed by this program, it should be reviewed and interpreted by a licensed clinician.

This program is not designed or intended to be used in the place of a full medical and psychiatric evaluation by a qualified licensed physician – psychiatrist. It is intended only as a tool to facilitate accurate data collection and processing of symptoms elicited by trained personnel.

M.I.N.I. 6.0.0 (January 1, 2009)

Po	tient Name:		Patient Num	ber:		
Do	ite of Birth:		Time Interview E	Began:		
In	terviewer's Name:		Time Interview L	Ended:		
Do	ate of Interview:	-	Total Time:			
			MEETS			PI
	MODULES	TIME FRAME	CRITERIA	DSM-IV-TR	ICD-10	DI
Δ	MAJOR DEPRESSIVE EDISODE	Current (2 weeks)	П	206 20-206 26 Single	F32 v	

MAIOR DEPRESSIVE EPISODE	Date of Interview: Total Time:							
MAUOR DEPRESSIVE EPISODE								
Past		MODULES	TIME FRAME	CRITERIA	DSM-IV-TR	ICD-10	DIAGNOSIS	
Past	Α	MAJOR DEPRESSIVE EPISODE	Current (2 weeks)		296.20-296.26 Single	F32.x		
SUICIDALITY Current (Past Month) Curre					=	F32.x		
Comment			Recurrent		296.30-296.36 Recurrent	F33.x		
Past	В	SUICIDALITY						
HYPOMANIC EPISODE	С	MANIC EPISODE			296.00-296.06	F30.x-F31.9		
Past		HYPOMANIC EDISODE			206 80-206 80	F31 8_F31 0/F3	10 🗆	
Past		THI ON WINE EL ISOBE			250.00 250.05	131.0 131.3/13	- 0 -	
BIPOLAR II DISORDER		BIPOLAR I DISORDER	Current		296.0x-296.6x	F30.x-F31.9		
Past			Past		296.0x-296.6x	F30.x-F31.9		
BIPOLAR DISORDER NOS		BIPOLAR II DISORDER	Current		296.89	F31.8		
Past			Past		296.89	F31.8		
D PANIC DISORDER Current (Past Month) Current Cu		BIPOLAR DISORDER NOS	Current		296.80	F31.9		
Lifetime			Past		296.80	F31.9		
F SOCIAL PHOBIA (Social Anxiety Disorder)	D	PANIC DISORDER	•		300.01/300.21	F40.01-F41.0		
Generalized	Ε	AGORAPHOBIA	Current		300.22	F40.00		
Generalized	F	SOCIAL PHOBIA (Social Anxiety Disorder)	Current (Past Month)					
G OBSESSIVE-COMPULSIVE DISORDER Current (Past Month)		, , ,	Generalized		300.23	F40.1		
H POSTTRAUMATIC STRESS DISORDER			Non-Generalized		300.23	F40.1		
ALCOHOL DEPENDENCE Past 12 Months 303.9 F10.2x F10.1	G	OBSESSIVE-COMPULSIVE DISORDER	Current (Past Month)		300.3	F42.8		
ALCOHOL ABUSE	Н	POSTTRAUMATIC STRESS DISORDER	Current (Past Month)		309.81	F43.1		
SUBSTANCE DEPENDENCE (Non-alcohol) Past 12 Months	I	ALCOHOL DEPENDENCE	Past 12 Months		303.9	F10.2x		
SUBSTANCE ABUSE (Non-alcohol) Past 12 Months □ 304.0090/305.2090 F11.1-F19.1 □		ALCOHOL ABUSE	Past 12 Months		305.00	F10.1		
SUBSTANCE ABUSE (Non-alcohol) Past 12 Months □ 304.0090/305.2090 F11.1-F19.1 □		SUBSTANCE DEPENDENCE (Non alcohol)	Dact 12 Months		204.00 00/205.20 00	F11 1 F10 1	_	
Recommendation Reco	J	` ,			•			
Current Cur		(a	. 450 12	_	30 1100 130, 300120 130	. 1111 . 1311	_	
MOOD DISORDER WITH Lifetime 293.89/298.8/298.9 296.24/296.34/296.44 F32.3/F33.3/ PSYCHOTIC FEATURES Current 296.24/296.34/296.44 F30.2/F31.2/F31.5 F31.8/F31.9/F39 Current Past 3 Months 307.1 F50.0 Current Past 3 Months 307.51 F50.2 Current Past 3 Months Current Past 3 Months Current Past 3 Months Past 4 Months Past 4 Months Past 4 Months Past 5 Months Past 6 Months Past 7 Months Pa	K	PSYCHOTIC DISORDERS	Lifetime		295.10-295.90/297.1/	F20.xx-F29		
MOOD DISORDER WITH PSYCHOTIC FEATURES Current			Current		297.3/293.81/293.82/			
PSYCHOTIC FEATURES Current ANOREXIA NERVOSA Current (Past 3 Months) BULIMIA NERVOSA Current (Past 3 Months) ANOREXIA NERVOSA Current (Past 3 Months) Current								
L ANOREXIA NERVOSA Current (Past 3 Months)								
L ANOREXIA NERVOSA Current (Past 3 Months) □ 307.1 F50.0 □ M BULIMIA NERVOSA Current (Past 3 Months) □ 307.51 F50.2 □ ANOREXIA NERVOSA, BINGE EATING/PURGING TYPE Current □ 307.1 F50.0 □ N GENERALIZED ANXIETY DISORDER Current (Past 6 Months) □ 300.02 F41.1 □ O MEDICAL, ORGANIC, DRUG CAUSE RULED OUT □ No □ Yes □Uncertain P ANTISOCIAL PERSONALITY DISORDER Lifetime □ 301.7 F60.2 □ IDENTIFY THE PRIMARY DIAGNOSIS BY CHECKING THE APPROPRIATE CHECK BOX. T T T T		PSYCHOTIC FEATURES	Current		296.24/296.34/296.44			
ANOREXIA NERVOSA, BINGE EATING/PURGING TYPE Current Cur	L	ANOREXIA NERVOSA	Current (Past 3 Months	s) 🗆	307.1			
N GENERALIZED ANXIETY DISORDER Current (Past 6 Months) □ 300.02 F41.1 □ O MEDICAL, ORGANIC, DRUG CAUSE RULED OUT □ No □ Yes □ Uncertain P ANTISOCIAL PERSONALITY DISORDER Lifetime □ 301.7 F60.2 □ IDENTIFY THE PRIMARY DIAGNOSIS BY CHECKING THE APPROPRIATE CHECK BOX.	M	BULIMIA NERVOSA	Current (Past 3 Month	s) 🗆	307.51	F50.2		
O MEDICAL, ORGANIC, DRUG CAUSE RULED OUT P ANTISOCIAL PERSONALITY DISORDER Lifetime 301.7 F60.2 TIDENTIFY THE PRIMARY DIAGNOSIS BY CHECKING THE APPROPRIATE CHECK BOX.		ANOREXIA NERVOSA, BINGE EATING/PURGING TYPE	Current		307.1	F50.0		
P ANTISOCIAL PERSONALITY DISORDER Lifetime IDENTIFY THE PRIMARY DIAGNOSIS BY CHECKING THE APPROPRIATE CHECK BOX.	N	GENERALIZED ANXIETY DISORDER	Current (Past 6 Months	s) 🗆	300.02	F41.1		
IDENTIFY THE PRIMARY DIAGNOSIS BY CHECKING THE APPROPRIATE CHECK BOX.	О	MEDICAL, ORGANIC, DRUG CAUSE RULED OUT		□ No	☐ Yes ☐Uncertain			
	Р	ANTISOCIAL PERSONALITY DISORDER	Lifetime		301.7	F60.2	□ ∧	
The translation from DSM-IV-TR to ICD-10 coding is not always exact. For more information on this tonic see Schulte-Markwort								

The translation from DSM-IV-TR to ICD-10 coding is not always exact. For more information on this topic see Schulte-Markwort. Crosswalks ICD-10/DSM-IV-TR. Hogrefe & Huber Publishers 2006.

GENERAL INSTRUCTIONS

The M.I.N.I. was designed as a brief structured interview for the major Axis I psychiatric disorders in DSM-IV and ICD-10. Validation and reliability studies have been done comparing the M.I.N.I. to the SCID-P for DSM-III-R and the CIDI (a structured interview developed by the World Health Organization). The results of these studies show that the M.I.N.I. has similar reliability and validity properties, but can be administered in a much shorter period of time (mean 18.7 ± 11.6 minutes, median 15 minutes) than the above referenced instruments. It can be used by clinicians, after a brief training session. Lay interviewers require more extensive training.

INTERVIEW:

In order to keep the interview as brief as possible, inform the patient that you will conduct a clinical interview that is more structured than usual, with very precise questions about psychological problems which require a yes or no answer.

GENERAL FORMAT:

The M.I.N.I. is divided into **modules** identified by letters, each corresponding to a diagnostic category.

- •At the beginning of each diagnostic module (except for psychotic disorders module), screening question(s) corresponding to the main criteria of the disorder are presented in a **gray box**.
- •At the end of each module, diagnostic box(es) permit the clinician to indicate whether diagnostic criteria are met.

CONVENTIONS:

Sentences written in « normal font » should be read exactly as written to the patient in order to standardize the assessment of diagnostic criteria.

Sentences written in « CAPITALS » should not be read to the patient. They are instructions for the interviewer to assist in the scoring of the diagnostic algorithms.

Sentences written in « **bold** » indicate the time frame being investigated. The interviewer should read them as often as necessary. Only symptoms occurring during the time frame indicated should be considered in scoring the responses.

Answers with an arrow above them (→) indicate that one of the criteria necessary for the diagnosis(es) is not met. In this case, the interviewer should go to the end of the module, circle « NO » in all the diagnostic boxes and move to the next module.

When terms are separated by a *slash* (/) the interviewer should read only those symptoms known to be present in the patient (for example, question G6).

Phrases in (parentheses) are clinical examples of the symptom. These may be read to the patient to clarify the question.

RATING INSTRUCTIONS:

All questions must be rated. The rating is done at the right of each question by circling either Yes or No. Clinical judgment by the rater should be used in coding the responses. Interviewers need to be sensitive to the diversity of cultural beliefs in their administration of questions and rating of responses. The rater should ask for examples when necessary, to ensure accurate coding. The patient should be encouraged to ask for clarification on any question that is not absolutely clear.

The clinician should be sure that each dimension of the question is taken into account by the patient (for example, time frame, frequency, severity, and/or alternatives).

Symptoms better accounted for by an organic cause or by the use of alcohol or drugs should not be coded positive in the M.I.N.I. The M.I.N.I. Plus has questions that investigate these issues.

For any questions, suggestions, need for a training session or information about updates of the M.I.N.I., please contact:

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e-mail: ylecrubier@noos.fr or even-sainteanne@orange.fr

A. MAJOR DEPRESSIVE EPISODE

(➡ MEANS: GO TO THE DIAGNOSTIC BOXES, CIRCLE NO IN ALL DIAGNOSTIC BOXES, AND MOVE TO THE NEXT MODULE)

A1	a	Were you <u>ever</u> depressed or down, most of the day, nearly every day, for two weeks?	NO	YES
		IF NO, CODE NO TO A1b : IF YES ASK:		
	b	For the past two weeks, were you depressed or down, most of the day, nearly every day?	NO	YES
A2	а	Were you <u>ever</u> much less interested in most things or much less able to enjoy the things you used to enjoy most of the time, for two weeks?	NO	YES
		IF NO, CODE NO TO A2b : IF YES ASK:		
	b	In the <u>past two weeks</u> , were you much less interested in most things or much less able to enjoy the things you used to enjoy, most of the time?	NO	YES
		IS A1a OR A2a CODED YES?	→ NO	YES

A3 IF **A1b** OR **A2b** = **YES**: EXPLORE THE **CURRENT** AND THE MOST SYMPTOMATIC **PAST** EPISODE, OTHERWISE IF **A1b** AND **A2b** = **NO**: EXPLORE ONLY THE MOST SYMPTOMATIC **PAST** EPISODE

Over that two week period, when you felt depressed or uninterested:

		Past 2 Weeks		<u>Weeks</u>	Past Episode	
	а	Was your appetite decreased or increased nearly every day? Did your weight decrease or increase without trying intentionally (i.e., by $\pm 5\%$ of body weight or ± 8 lbs. or ± 3.5 kgs., for a 160 lb./70 kg. person in a month)? IF YES TO EITHER, CODE YES.	NO	YES	NO	YES
	b	Did you have trouble sleeping nearly every night (difficulty falling asleep, waking up in the middle of the night, early morning wakening or sleeping excessively)?	NO	YES	NO	YES
	С	Did you talk or move more slowly than normal or were you fidgety, restless or having trouble sitting still almost every day?	NO	YES	NO	YES
	d	Did you feel tired or without energy almost every day?	NO	YES	NO	YES
	е	Did you feel worthless or guilty almost every day?	NO	YES	NO	YES
		IF YES, ASK FOR EXAMPLES. THE EXAMPLES ARE CONSISTENT WITH A DELUSIONAL IDEA. Current Episode Past Episode No Yes Yes				
	f	Did you have difficulty concentrating or making decisions almost every day?	NO	YES	NO	YES
	g	Did you repeatedly consider hurting yourself, feel suicidal, or wish that you were dead? Did you attempt suicide or plan a suicide? IF YES TO EITHER, CODE YES.	NO	YES	NO	YES
A4		Did these symptoms cause significant problems at home, at work, socially, at school or in some other important way?	NO	YES	NO	YES
A5		In between 2 episodes of depression, did you ever have an interval of at least 2 months, without any significant depression or any significant loss	of intere	st?	NO	YES

ARE 5 OR MORE ANSWERS (A1-A3) CODED YES AND IS A4 CODED YES FOR THAT TIME FRAME?	NO	YES
SPECIFY IF THE EPISODE IS CURRENT AND / OR PAST.	MAJOR DE EPISO	
IF A5 IS CODED YES, CODE YES FOR RECURRENT.	CURRENT PAST RECURRENT	0
a How many episodes of depression did you have in your lifetime?		

Α6

Between each episode there must be at least 2 months without any significant depression.

B. SUICIDALITY

	b. Solcidali i					
	In the past month did you:			Points		
B1	Suffer any accident? IF NO TO B1, SKIP TO B2; IF YES, ASK B1a:	NO	YES	0		
B 1a	Plan or intend to hurt yourself in that accident either actively or passively (e.g. not avoiding a risk)? IF NO TO B1a, SKIP TO B2: IF YES, ASK B1b:	NO	YES	0		
B1b	Intend to die as a result of this accident?	NO	YES	0		
B2	Feel hopeless?	NO	YES	1		
В3	Think that you would be better off dead or wish you were dead?	NO	YES	1		
B4	Want to harm yourself or to hurt or to injure yourself or have mental images of harming yourself?	NO	YES	2		
B5	Think about suicide? IF NO TO B5, SKIP TO B7. OTHERWISE ASK:	NO	YES	6		
	Frequency Intensity					
	Occasionally					
	Can you state that you will not act on these impulses during this treatment program?	NO	YES			
В6	Feel unable to control these impulses?	NO	YES	8		
В7	Have a suicide plan?	NO	YES	8		
В8	Take any active steps to prepare to injure yourself or to prepare for a suicide attempt in which you expected or intended to die?	NO	YES	9		
В9	Deliberately injure yourself without intending to kill yourself?	NO	YES	4		
B10	Attempt suicide? IF NO SKIP TO B11: Hope to be rescued / survive Expected / intended to die	NO	YES	9		
	In your lifetime:					
B11	Did you ever make a suicide attempt?	NO	YES	4		

IS AT LEAST 1 OF THE ABOVE (EXCEPT B1) CODED YES?

IF YES, ADD THE TOTAL POINTS FOR THE ANSWERS (B1-B11)
CHECKED 'YES' AND SPECIFY THE SUICIDALITY SCORE AS
INDICATED IN THE DIAGNOSTIC BOX:

1-8 points Low
9-16 points Moderate
≥ 17 points High

MAKE ANY ADDITIONAL COMMENTS ABOUT YOUR ASSESSMENT OF THIS PATIENT'S CURRENT AND NEAR FUTURE SUICIDALITY IN THE SPACE BELOW:

C. MANIC AND HYPOMANIC EPISODES

(➡ MEANS: GO TO THE DIAGNOSTIC BOXES, CIRCLE NO IN MANIC AND HYPOMANIC DIAGNOSTIC BOXES, AND MOVE TO NEXT MODULE)

Do you have any family history of manic depressive illness or bipolar disorder,

		sodium valproate (Depakote) or lamotrigine (Lamictal)? THIS QUESTION IS NOT A CRITERION FOR BIPOLAR DISORDER, BUT IS ASKED TO INCREASE THE CLINICIAN'S VIGILANCE ABOUT THE RISK FOR BIPOLAR DISORDER. IF YES, PLEASE SPECIFY WHO:	NO	YES
C1	а	Have you ever had a period of time when you were feeling 'up' or 'high' or 'hyper' or so full of energy or full of yourself that you got into trouble, - or that other people thought you were not your usual self? (Do not consider times when you were intoxicated on drugs or alcohol.) IF PATIENT IS PUZZLED OR UNCLEAR ABOUT WHAT YOU MEAN	NO	YES
		BY 'UP' OR 'HIGH' OR 'HYPER', CLARIFY AS FOLLOWS: By 'up' or 'high' or 'hyper' I mean: having elated mood; increased energy; needing less sleep; having rapid thoughts; being full of ideas; having an increase in productivity, motivation, creativity, or impulsive behavior; phoning or working excessively or spending more money.		
		IF NO, CODE NO TO C1b : IF YES ASK:		
	b	Are you currently feeling 'up' or 'high' or 'hyper' or full of energy?	NO	YES
C2	а	Have you ever been persistently irritable, for several days, so that you had arguments or verbal or physical fights, or shouted at people outside your family? Have you or others noticed that you have been more irritable or over reacted, compared to other people, even in situations that you felt were justified?	NO	YES
		IF NO, CODE NO TO C2b : IF YES ASK:		
	b	Are you currently feeling persistently irritable?	NO →	YES
		IS C1a OR C2a CODED YES?	ŇO	YES
С3		IF C1b OR C2b = YES: EXPLORE THE CURRENT AND THE MOST SYMPTOMATIC PAST EPISODE, OTHER	WISE	

IF **C1b** AND **C2b** = **NO**: EXPLORE ONLY THE MOST SYMPTOMATIC **PAST** EPISODE

During the times when you felt high, full of energy, or irritable did you:

During the times when you left high, full of energy, or irritable did you:	Curre	nt Episode	Past F	pisode
	<u>carre</u>	периосе	1 430 2	pisouc
a Feel that you could do things others couldn't do, or that you were an especially important person? If yes, ASK FOR EXAMPLES. THE EXAMPLES ARE CONSISTENT WITH A DELUSIONAL IDEA. Current Episode ☐ No ☐ Yes Past Episode ☐ No ☐ Yes	NO	YES	NO	YES
b Need less sleep (for example, feel rested after only a few hours sleep)?	NO	YES	NO	YES
c Talk too much without stopping, or so fast that people had difficulty understanding?	NO	YES	NO	YES
d Have racing thoughts?	NO	YES	NO	YES
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		Current	<u>Episode</u>	Past Epi	<u>sode</u>
е	Become easily distracted so that any little interruption could distract you?	NO	YES	NO	YES
f	Have a significant increase in your activity or drive, at work, at school, socially or sexually or did you become physically or mentally restless?	NO	YES	NO	YES
g	Want so much to engage in pleasurable activities that you ignored the risks or consequences (for example, spending sprees, reckless driving, or sexual indiscretions)?	NO	YES	NO	YES
C3 SUM	MARY: WHEN RATING CURRENT EPISODE: IF C1b IS NO, ARE 4 OR MORE C3 ANSWERS CODED YES? IF C1b IS YES, ARE 3 OR MORE C3 ANSWERS CODED YES?	NO	YES	NO	YES
	WHEN RATING PAST EPISODE: IF C1a IS NO, ARE 4 OR MORE C3 ANSWERS CODED YES? IF C1a IS YES, ARE 3 OR MORE C3 ANSWERS CODED YES?				
	code YES only if the above $3\mathrm{or}4$ symptoms occurred during the same time period.				
	RULE: ELATION/EXPANSIVENESS REQUIRES ONLY THREE C3 SYMPTOMS, WHILE IRRITABLE MOOD ALONE REQUIRES 4 OF THE C3 SYMPTOMS.				
C4	What is the longest time these symptoms lasted?a) 3 days or lessb) 4 to 6 daysc) 7 days or more		000		000
C5	Were you hospitalized for these problems?	NO	YES	NO	YES
	IF YES, STOP HERE AND CIRCLE YES IN MANIC EPISODE FOR THAT TIME FRAME.				
C6	Did these symptoms cause significant problems at home, at work, socially in your relationships with others, at school or in some other important way?	NO	YES	NO	YES
	ARE C3 SUMMARY AND C5 AND C6 CODED YES AND EITHER C4a or b or c CODED YES	?	NO		YES
	OR		MA	NIC EPIS	ODE
	ARE C3 SUMMARY AND C4c AND C6 CODED YES AND IS C5 CODED NO ?		CURREN PAST	IT	0
	SPECIFY IF THE EPISODE IS CURRENT AND / OR PAST.		PASI		
	ARE C3 SUMMARY AND C5 AND C6 CODED NO AND EITHER C4b OR C4C CODED YES?		NO YES		
	OR		HYPON	ΛANIC E	PISODE
	ARE C3 SUMMARY AND C4b AND C6 CODED YES AND IS C5 CODED NO? SPECIFY IF THE EPISODE IS CURRENT AND / OR PAST.		CURRENT PAST		0

	ARE C3 SUMMARY AND C4a CODED YES AND IS C5 CODED NO ?	NO	YES	S
		HYPOMANIC S	/MPT(oms
	SPECIFY IF THE EPISODE IS CURRENT AND / OR PAST.	CURRENT PAST		0
C7	a) IF MANIC EPISODE IS POSITIVE FOR EITHER CURRENT OR PAST ASK: Did you have 2 or more manic episodes (C4c) in your lifetime (including the current	t episode if present)?	NO	YES
	b) IF HYPOMANIC EPISODE IS POSITIVE FOR EITHER CURRENT OR PAST ASK: Did you have 2 or more hypomanic EPISODES (C4b) in your lifetime (including the	current episode)?	NO	YES
	c) IF PAST "HYPOMANIC SYMPTOMS" IS CODED POSITIVE ASK: Did you have 2 or more episodes of hypomanic SYMPTOMS (C4a) in your lifetime (including the current episode if present)?		NO	YES

D. PANIC DISORDER

(➡ MEANS: CIRCLE NO IN D5, D6 AND D7 AND SKIP TO E1)

D1	а	Have you, on more than one occasion, had spells or attacks when you suddenly felt anxious, frightened, uncomfortable or uneasy, even in situations where most people would not feel that way?	→ NO	YES
	b	Did the spells surge to a peak within 10 minutes of starting?	→ NO	YES
			→	
D2		At any time in the past, did any of those spells or attacks come on unexpectedly or occur in an unpredictable or unprovoked manner?	NO	YES
D3		Have you ever had one such attack followed by a month or more of persistent concern about having another attack, or worries about the consequences of the attack - or did you make a significant change in your behavior because of the attacks (e.g., shopping only with a companion, not wanting to leave your house, visiting the emergency room repeatedly, or seeing your doctor more frequently because of the symptoms)?	NO	YES
D4		During the worst attack that you can remember:		
	а	Did you have skipping, racing or pounding of your heart?	NO	YES
	b	Did you have sweating or clammy hands?	NO	YES
	С	Were you trembling or shaking?	NO	YES
	d	Did you have shortness of breath or difficulty breathing?	NO	YES
	е	Did you have a choking sensation or a lump in your throat?	NO	YES
	f	Did you have chest pain, pressure or discomfort?	NO	YES
	g	Did you have nausea, stomach problems or sudden diarrhea?	NO	YES
	h	Did you feel dizzy, unsteady, lightheaded or faint?	NO	YES
	i	Did things around you feel strange, unreal, detached or unfamiliar, or did you feel outside of or detached from part or all of your body?	NO	YES
	j	Did you fear that you were losing control or going crazy?	NO	YES
	k	Did you fear that you were dying?	NO	YES
	1	Did you have tingling or numbness in parts of your body?	NO	YES
	m	Did you have hot flushes or chills?	NO	YES
D5		ARE BOTH D3, AND 4 OR MORE D4 ANSWERS, CODED YES ? IF YES TO D5, SKIP TO D7.	NO	YES PANIC DISORDER LIFETIME
D6		IF D5 = NO , ARE ANY D4 ANSWERS CODED YES ? THEN SKIP TO E1 .	NO	YES LIMITED SYMPTOM
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In the past month, did you have such attacks repeatedly (2 or more), and did you have persistent concern about having another attack, or worry about the consequences of the attacks, or did you change your behavior in any way because of the attacks?

NO YES

PANIC DISORDER

CURRENT

E. AGORAPHOBIA

Do you feel anxious or uneasy in places or situations where help might not be available or escape might be difficult, like being in a crowd, standing in a line (queue), when you are alone away from home or alone at home, or when crossing a bridge, or traveling in a bus, train or car or where you might have a panic attack or the panic-like symptoms we just spoke about?

NO YES

IF **E1** = **NO**, CIRCLE **NO** IN **E2**.

E2 Do you fear these situations so much that you avoid them, or suffer through them, or need a companion to face them?

NO YES

AGORAPHOBIA
CURRENT

IS E2 (CURRENT AGORAPHOBIA) CODED YES

and

D7

IS D7 (CURRENT PANIC DISORDER) CODED YES?

NO YES

PANIC DISORDER with Agoraphobia CURRENT

IS E2 (CURRENT AGORAPHOBIA) CODED NO

and

IS D7 (CURRENT PANIC DISORDER) CODED YES?

NO YES

PANIC DISORDER without Agoraphobia CURRENT

IS E2 (CURRENT AGORAPHOBIA) CODED YES

and

IS **D5** (PANIC DISORDER LIFETIME) CODED **NO**?

NO YES

AGORAPHOBIA, CURRENT without history of Panic Disorder

F. SOCIAL PHOBIA (Social Anxiety Disorder)

(→ MEANS: GO TO THE DIAGNOSTIC BOX, CIRCLE NO AND MOVE TO THE NEXT MODULE)

F1	In the past month, did you have persistent fear and significant anxiety at being watched, being the focus of attention, or of being humiliated or embarrassed? This includes thing speaking in public, eating in public or with others, writing while someone watches, or being in social situations.		→ NO	YES	
F2	Is this social fear excessive or unreasonable and does it almost always make you anxious	?	→ NO	YES	
F3	Do you fear these social situations so much that you avoid them or suffer through them most of the time?		→ NO	YES	
F4	Do these social fears disrupt your normal work, school or social functioning or cause you significant distress?	NO		Y	ÆS
	SUBTYPES		cial Anx	PHOB iety Diso RENT	
	Do you fear and avoid 4 or more social situations?				
	If YES Generalized social phobia (social anxiety disorder)	GE	NERALI	ZED	_
	If NO Non-generalized social phobia (social anxiety disorder)	NON-	GENERA	ALIZED	
	EXAMPLES OF SUCH SOCIAL SITUATIONS TYPICALLY INCLUDE INITIATING OR MAINTAINING A CONVERSATION, PARTICIPATING IN SMALL GROUPS, DATING, SPEAKING TO AUTHORITY FIGURES, ATTENDING PARTIES, PUBLIC SPEAKING, EATING IN FRONT OF OTHERS, URINATING IN A PUBLIC WASHROOM, ETC. NOTE TO INTERVIEWER: PLEASE ASSESS WHETHER THE SUBJECT'S FEARS ARE RESTRICTED TO NON-GENERALIZED ("ONLY 1 OR SEVERAL") SOCIAL SITUATIONS OR EXTEND TO GENERALIZED ("MOST") SOCIAL SITUATIONS. "MOST" SOCIAL SITUATIONS IS USUALLY OPERATIONALIZED TO				
	MEAN 4 OR MORE SOCIAL SITUATIONS, ALTHOUGH THE DSM-IV DOES NOT EXPLICITLY STATE THIS.				

G. OBSESSIVE-COMPULSIVE DISORDER

(→ MEANS: GO TO THE DIAGNOSTIC BOX, CIRCLE NO AND MOVE TO THE NEXT MODULE)

G1	In the past month, have you been bothered by recurrent thoughts, impulses, or images that were unwanted, distasteful, inappropriate, intrusive, or distressing? - (For example, the idea that you were dirty, contaminated or had germs, or fear of contaminating others, or fear of harming someone even though it disturbs or distresses you, or fear you would act on some impulse, or fear or superstitions that you would be responsible for things going wrong, or obsessions with sexual thoughts, images or impulses, or hoarding, collecting, or religious obsessions.) (DO NOT INCLUDE SIMPLY EXCESSIVE WORRIES ABOUT REAL LIFE PROBLEMS. DO NOT INCLUDE OBSESSIONS DIRECTLY RELATED TO EATING DISORDERS, SEXUAL DEVIATIONS, PATHOLOGICAL GAMBLING, OR ALCOHOL OR DRUG ABUSE BECAUSE THE PATIENT MAY DERIVE PLEASURE FROM THE ACTIVITY AND MAY WANT TO RESIST IT ONLY BECAUSE OF ITS NEGATIVE CONSEQUENCES.)	NO ↓ SKIP TO	YES	
G2	Did they keep coming back into your mind even when you tried to ignore or get rid of them?	NO ↓ SKIP TO	YES	
G3	Do you think that these obsessions are the product of your own mind and that they are not imposed from the outside?	NO	YES obsessions	
G4	In the past month, did you do something repeatedly without being able to resist doing it, like washing or cleaning excessively, counting or checking things over and over, or repeating, collecting, arranging things, or other superstitious rituals?	NO	YES compulsions	
	IS G3 OR G4 CODED YES ?	→ NO	YES	
G5	At any point, did you recognize that either these obsessive thoughts or these compulsive behaviors were excessive or unreasonable?	→ NO	YES	
G6	In the past month, did these obsessive thoughts and/or compulsive behaviors significantly interfere with your normal routine, your work or school, your usual social activities, or relationships, or did they take more than one hour a day?		YES .C.D. RRENT	

H. POSTTRAUMATIC STRESS DISORDER

(→ MEANS: GO TO THE DIAGNOSTIC BOX, CIRCLE NO, AND MOVE TO THE NEXT MODULE)

111			→	VEC
H1		Have you ever experienced or witnessed or had to deal with an extremely traumatic event that included actual or threatened death or serious injury to you or someone else?	NO	YES
		EXAMPLES OF TRAUMATIC EVENTS INCLUDE: SERIOUS ACCIDENTS, SEXUAL OR PHYSICAL ASSAULT, A TERRORIST ATTACK, BEING HELD HOSTAGE, KIDNAPPING, FIRE, DISCOVERING A BODY, WAR, OR NATURAL DISASTER, WITNESSING THE VIOLENT OR SUDDEN DEATH OF SOMEONE CLOSE TO YOU, OR A LIFE THREATENING ILLNESS.	_	
H2		Did you respond with intense fear, helplessness or horror?	NO	YES
Н3		During the past month, have you re-experienced the event in a distressing way (such as in dreams, intense recollections, flashbacks or physical reactions) or did you have intense distress when you were reminded about the event or exposed to a similar event.	→ NO ent?	YES
Н4		In the past month:		
	а	Have you avoided thinking about or talking about the event ?	NO	YES
	b	Have you avoided activities, places or people that remind you of the event?	NO	YES
	С	Have you had trouble recalling some important part of what happened?	NO	YES
	d	Have you become much less interested in hobbies or social activities?	NO	YES
	e	Have you felt detached or estranged from others?	NO	YES
	f	Have you noticed that your feelings are numbed?	NO	YES
	g	Have you felt that your life will be shortened or that you will die sooner than other people	? NO	YES
		ARE 3 OR MORE H4 ANSWERS CODED YES ?	NO	YES
H5		In the past month:		
	а	Have you had difficulty sleeping?	NO	YES
	b	Were you especially irritable or did you have outbursts of anger?	NO	YES
	С	Have you had difficulty concentrating?	NO	YES
	d	Were you nervous or constantly on your guard?	NO	YES
	e	Were you easily startled?	NO	YES
		ARE 2 OR MORE H5 ANSWERS CODED YES ?	NO	YES
			NO	YES
Н6		During the past month, have these problems significantly interfered with your work, school or social activities, or caused significant distress?	POSTTRAUMATIC STRESS DISORDER CURRENT	

I. ALCOHOL DEPENDENCE / ABUSE

(→ MEANS: GO TO DIAGNOSTIC BOXES, CIRCLE NO IN BOTH AND MOVE TO THE NEXT MODULE)

	In the past 12 months, have you had 3 or more alcoholic drinks, - within a 3 hour period, - on 3 or more occasions?	→ NO	YES
	In the past 12 months:		
a	Did you need to drink a lot more in order to get the same effect that you got when you fir started drinking or did you get much less effect with continued use of the same amount?	rst NO	YES
b	When you cut down on drinking did your hands shake, did you sweat or feel agitated? Di you drink to avoid these symptoms (for example, "the shakes", sweating or agitation) or to avoid being hungover? IF YES TO ANY, CODE YES.	d NO	YES
С	During the times when you drank alcohol, did you end up drinking more than you planned when you started?	NO	YES
d	Have you tried to reduce or stop drinking alcohol but failed?	NO	YES
e	On the days that you drank, did you spend substantial time in obtaining alcohol, drinking, or in recovering from the effects of alcohol?	NO	YES
f	Did you spend less time working, enjoying hobbies, or being with others because of your drinking?	NO	YES
g	If your drinking caused you health or mental problems, did you still keep on drinking?	NO	YES
	ARE 3 OR MORE 12 ANSWERS CODED YES?	NO	YES*
	* IF YES, SKIP I3 QUESTIONS AND GO TO NEXT MODULE. "DEPENDENCE PREEMPTS ABUSE" IN DSM IV TR.	ALCOHOL DEPENDENCE CURRENT	
	In the past 12 months:		
а	Have you been intoxicated, high, or hungover more than once when you had other responsibilities at school, at work, or at home? Did this cause any problems? (CODE YES ONLY IF THIS CAUSED PROBLEMS.)	NO	YES
b	Were you intoxicated more than once in any situation where you were physically at risk, for example, driving a car, riding a motorbike, using machinery, boating, etc.?	NO	YES
С	Did you have legal problems more than once because of your drinking, for example, an arrest or disorderly conduct?	NO	YES
d	If your drinking caused problems with your family or other people, did you still keep on drinking?	NO	YES
	b c d e f g	In the past 12 months: a Did you need to drink a lot more in order to get the same effect that you got when you fire started drinking or did you get much less effect with continued use of the same amount? b When you cut down on drinking did your hands shake, did you sweat or feel agitated? Did you drink to avoid these symptoms (for example, "the shakes", sweating or agitation) or to avoid being hungover? If YES TO ANY, CODE YES. c During the times when you drank alcohol, did you end up drinking more than you planned when you started? d Have you tried to reduce or stop drinking alcohol but failed? e On the days that you drank, did you spend substantial time in obtaining alcohol, drinking, or in recovering from the effects of alcohol? f Did you spend less time working, enjoying hobbies, or being with others because of your drinking? g If your drinking caused you health or mental problems, did you still keep on drinking? ARE 3 OR MORE I2 ANSWERS CODED YES? * IF YES, SKIP I3 QUESTIONS AND GO TO NEXT MODULE. "DEPENDENCE PREEMPTS ABUSE" IN DSM IV TR. In the past 12 months: a Have you been intoxicated, high, or hungover more than once when you had other responsibilities at school, at work, or at home? Did this cause any problems? (CODE YES ONLY IF THIS CAUSED PROBLEMS.) b Were you intoxicated more than once in any situation where you were physically at risk, for example, driving a car, riding a motorbike, using machinery, boating, etc.? c Did you have legal problems more than once because of your drinking, for example, an arrest or disorderly conduct? d If your drinking caused problems with your family or other people,	In the past 12 months: a Did you need to drink a lot more in order to get the same effect that you got when you first started drinking or did you get much less effect with continued use of the same amount? b When you cut down on drinking did your hands shake, did you sweat or feel agitated? Did you drink to avoid these symptoms (for example, "the shakes", sweating or agitation) or to avoid being hungover? If YES TO ANY, CODE YES. c During the times when you drank alcohol, did you end up drinking more than you planned when you started? d Have you tried to reduce or stop drinking alcohol but failed? NO on the days that you drank, did you spend substantial time in obtaining alcohol, drinking, or in recovering from the effects of alcohol? f Did you spend less time working, enjoying hobbies, or being with others because of your drinking? g If your drinking caused you health or mental problems, did you still keep on drinking? ARE 3 OR MORE IZ ANSWERS CODED YES? * IF YES, SKIP I3 QUESTIONS AND GO TO NEXT MODULE. "DEPENDENCE PREEMPTS ABUSE" IN DSM IV TR. In the past 12 months: a Have you been intoxicated, high, or hungover more than once when you had other responsibilities at school, at work, or at home? Did this cause any problems? (CODE YES ONLY IF THIS CAUSED PROBLEMS.) b Were you intoxicated more than once in any situation where you were physically at risk, for example, driving a car, riding a motorbike, using machinery, boating, etc.? Did you have legal problems more than once because of your drinking, for example, an arrest or disorderly conduct? d If your drinking caused problems with your family or other people, NO

ARE 1 OR MORE 13 ANSWERS CODED YES?

NO YES

ALCOHOL ABUSE
CURRENT

J. SUBSTANCE DEPENDENCE / ABUSE (NON-ALCOHOL)

(→ MEANS: GO TO THE DIAGNOSTIC BOXES, CIRCLE NO IN ALL DIAGNOSTIC BOXES, AND MOVE TO THE NEXT MODULE)

		Now I am going to show you / read to you a list of street drugs or medicines.		
J1	а	In the past 12 months, did you take any of these drugs more than once, to get high, to feel elated, to get "a buzz" or to change your mood?	NO	YES
		CIRCLE EACH DRUG TAKEN:		
		Stimulants: amphetamines, "speed", crystal meth, "crank", "rush", Dexedrine, Ritalin, diet pills. Cocaine: snorting, IV, freebase, crack, "speedball".		
		Narcotics: heroin, morphine, Dilaudid, opium, Demerol, methadone, Darvon, codeine, Percodan	, Vicode	n, OxyContin.
		Hallucinogens: LSD ("acid"), mescaline, peyote, psilocybin, STP, "mushrooms", "ecstasy", MDA,	MDMA.	
		Phencyclidine: PCP ("Angel Dust", "PeaCe Pill", "Tranq", "Hog"), or ketamine ("special K").		
		Inhalants: "glue", ethyl chloride, "rush", nitrous oxide ("laughing gas"), amyl or butyl nitrate ("po	oppers")	
		Cannabis: marijuana, hashish ("hash"), THC, "pot", "grass", "weed", "reefer".		
		Tranquilizers: Quaalude, Seconal ("reds"), Valium, Xanax, Librium, Ativan, Dalmane, Halcion, bar	biturate	s,
		Miltown, GHB, Roofinol, "Roofies".		
		Miscellaneous: steroids, nonprescription sleep or diet pills. Cough Medicine? Any others?		
		SPECIFY THE MOST USED DRUG(S):	_	
		WHICH DRUG(S) CAUSE THE BIGGEST PROBLEMS?:	_	
		FIRST EXPLORE THE DRUG CAUSING THE BIGGEST PROBLEMS AND MOST LIKELY TO MEET DEPENDENCE / ABUSE CRITERIA.		
		IF MEETS CRITERIA FOR ABUSE OR DEPENDENCE, SKIP TO THE NEXT MODULE. OTHERWISE, EXPLORE THE NEXT MOST PROBLEMATIC DRU	IG.	
J2		Considering your use of (NAME THE DRUG / DRUG CLASS SELECTED), in the past 12 months:		
	а	Have you found that you needed to use much more (NAME OF DRUG / DRUG CLASS SELECTED) to get the same effect that you did when you first started taking it?	NO	YES
	b	When you reduced or stopped using (NAME OF DRUG / DRUG CLASS SELECTED), did you have withdrawal symptoms (aches, shaking, fever, weakness, diarrhea, nausea, sweating, heart pounding, difficulty sleeping, or feeling agitated, anxious, irritable, or depressed)? Did you use any drug(s) to keep yourself from getting sick (withdrawal symptoms) or so that you would feel better?	NO	YES
		IF YES TO EITHER, CODE YES .		
	С	Have you often found that when you used (NAME OF DRUG / DRUG CLASS SELECTED), you ended up taking more than you thought you would?	NO	YES
	d	Have you tried to reduce or stop taking (NAME OF DRUG / DRUG CLASS SELECTED) but failed?	NO	YES
	e	On the days that you used (NAME OF DRUG / DRUG CLASS SELECTED), did you spend substantial	NO	YES
	f	time (>2 HOURS), obtaining, using or in recovering from the drug, or thinking about the drug? Did you spend less time working, enjoying hobbies, or being with family or friends because of your drug use?	NO	YES
	g	If (NAME OF DRUG / DRUG CLASS SELECTED) caused you health or mental problems, did you still keep on using it?	NO	YES

	ARE 3 OR MORE J2 ANSWERS CODED YES ?	NO	YES *	
	* IF YES, SKIP J3 QUESTIONS, MOVE TO NEXT DISORDER. "DEPENDENCE PREEMPTS ABUSE" IN DSM IV TR.		E DEPENDENCE RRENT	
J3 a	more than once, when you had other responsibilities at school, at work, or at home?	NO	YES	
b	Did this cause any problem? (CODE YES ONLY IF THIS CAUSED PROBLEMS.) Have you been high or intoxicated from (NAME OF DRUG / DRUG CLASS SELECTED) more than once in any situation where you were physically at risk (for example, driving a car, riding a motorbike, using machinery, boating, etc.)?	NO	YES	
С	Did you have legal problems more than once because of your drug use, for example, an arrest or disorderly conduct?	NO	YES	
d	If (NAME OF DRUG / DRUG CLASS SELECTED) caused problems with your family or other people, did you still keep on using it?	NO	YES	
А	RE 1 OR MORE J3 ANSWERS CODED YES ?	NO	YES	
	SPECIFY DRUG(S):	SUBSTANCE ABUSE CURRENT		

K. PSYCHOTIC DISORDERS AND MOOD DISORDER WITH PSYCHOTIC FEATURES

ASK FOR AN EXAMPLE OF EACH QUESTION ANSWERED POSITIVELY. CODE **YES** ONLY IF THE EXAMPLES CLEARLY SHOW A DISTORTION OF THOUGHT OR OF PERCEPTION OR IF THEY ARE NOT CULTURALLY APPROPRIATE. BEFORE CODING, INVESTIGATE WHETHER DELUSIONS QUALIFY AS "BIZARRE".

DELUSIONS ARE "BIZARRE" IF: CLEARLY IMPLAUSIBLE, ABSURD, NOT UNDERSTANDABLE, AND CANNOT DERIVE FROM ORDINARY LIFE EXPERIENCE.

HALLUCINATIONS ARE SCORED "BIZARRE" IF: A VOICE COMMENTS ON THE PERSON'S THOUGHTS OR BEHAVIOR, OR WHEN TWO OR MORE VOICES ARE CONVERSING WITH EACH OTHER.

THE PURPOSE OF THIS MODULE IS TO EXCLUDE PATIENTS WITH PSYCHOTIC DISORDERS. THIS MODULE NEEDS EXPERIENCE.

		Now I am going to ask you about unusual experiences that some people have.			BIZARRE
K1	а	Have you ever believed that people were spying on you, or that someone was plotting against you, or trying to hurt you? NOTE: ASK FOR EXAMPLES TO RULE OUT ACTUAL STALKING.	NO	YES	YES
	b	IF YES OR YES BIZARRE: do you currently believe these things?	NO	YES	YES →ĸ6
K2	а	Have you ever believed that someone was reading your mind or could hear your thoughts, or that you could actually read someone's mind or hear what another person was thinking?	NO	YES	YES
	b	IF YES OR YES BIZARRE: do you currently believe these things?	NO	YES	YES →K6
К3	а	Have you ever believed that someone or some force outside of yourself put thoughts in your mind that were not your own, or made you act in a way that was not your usual self? Have you ever felt that you were possessed? CLINICIAN: ASK FOR EXAMPLES AND DISCOUNT ANY THAT ARE NOT PSYCHOTIC.	NO	YES	YES
	b	IF YES OR YES BIZARRE: do you currently believe these things?	NO	YES	YES →K6
К4	а	Have you ever believed that you were being sent special messages through the TV, radio, newspapers, books or magazines or that a person you did not personally know was particularly interested in you?	NO	YES	YES
	b	IF YES OR YES BIZARRE: do you currently believe these things?	NO	YES	YES ►K6
K5	а	Have your relatives or friends ever considered any of your beliefs odd or unusual? INTERVIEWER: ASK FOR EXAMPLES. ONLY CODE YES IF THE EXAMPLES ARE CLEARLY DELUSIONAL IDEAS NOT EXPLORED IN QUESTIONS K1 TO K4, FOR EXAMPLE, SOMATIC OR RELIGIOUS DELUSIONS OR DELUSIONS OF GRANDIOSITY, JEALOUSY, GUILT, RUIN OR DESTITUTION, ETC.	NO	YES	YES
	b	IF YES OR YES BIZARRE: do they currently consider your beliefs strange?	NO	YES	YES
К6	а	Have you ever heard things other people couldn't hear, such as voices?	NO	YES	
		IF YES TO VOICE HALLUCINATION: Was the voice commenting on your thoughts or behavior or did you hear two or more voices talking to each other?	NO		YES
	b	IF YES OR YES BIZARRE TO K6a: have you heard sounds / voices in the past month?	NO	YES	
		IF YES TO VOICE HALLUCINATION: Was the voice commenting on your thoughts or behavior or did you hear two or more voices talking to each other?	NO		YES └→K8b

K7 a	C	Have you ever had visions when you were awake or have you ever seen things other people couldn't see? CLINICIAN: CHECK TO SEE IF THESE ARE CULTURALLY INAPPROPRIATE.	NO	YES
k	b I	FYES: have you seen these things in the past month?	NO	YES
	(CLINICIAN'S JUDGMENT		
K8 k		IS THE PATIENT CURRENTLY EXHIBITING INCOHERENCE, DISORGANIZED SPEECH, OR MARKED LOOSENING OF ASSOCIATIONS?	NO	YES
K9 k		IS THE PATIENT CURRENTLY EXHIBITING DISORGANIZED OR CATATONIC BEHAVIOR?	NO	YES
K10 k	F	ARE NEGATIVE SYMPTOMS OF SCHIZOPHRENIA, E.G. SIGNIFICANT AFFECTIVE FLATTENING, POVERTY OF SPEECH (ALOGIA) OR AN INABILITY TO INITIATE OR PERSIST IN GOAL-DIRECTED ACTIVITIES (AVOLITION), PROMINENT DURING THE INTERVIEW?	NO	YES
K11 a		ARE 1 OR MORE « a » QUESTIONS FROM K1a TO K7a CODED YES OR YES BIZARRE AND IS EITHER:		
		MAJOR DEPRESSIVE EPISODE, (CURRENT, RECURRENT OR PAST) OR		
		MANIC OR HYPOMANIC EPISODE, (CURRENT OR PAST) CODED YES ?	NO → K13	YES
		IF NO TO K11 a, CIRCLE NO IN BOTH 'MOOD DISORDER WITH PSYCHOTIC FEATURES' DIAGNOSTIC BOXES AND MOVE TO K13.		

b You told me earlier that you had period(s) when you felt (depressed/high/persistently irritable).

Were the beliefs and experiences you just described (SYMPTOMS CODED YES FROM K1a TO K7a) restricted exclusively to times when you were feeling depressed/high/irritable?

IF THE PATIENT EVER HAD A PERIOD OF AT LEAST 2 WEEKS OF HAVING THESE BELIEFS OR EXPERIENCES (PSYCHOTIC SYMPTOMS) WHEN THEY WERE NOT DEPRESSED/HIGH/IRRITABLE, CODE NO TO THIS DISORDER.

IF THE ANSWER IS NO TO THIS DISORDER, ALSO CIRCLE NO TO K12 AND MOVE TO K13

NO YES

MOOD DISORDER WITHPSYCHOTIC FEATURES

LIFETIME

K12 a ARE 1 OR MORE « b » QUESTIONS FROM K1b TO K7b CODED YES OR YES BIZARRE AND IS EITHER:

MAJOR DEPRESSIVE EPISODE, (CURRENT)

MANIC OR HYPOMANIC EPISODE, (CURRENT) CODED YES?

IF THE ANSWER IS YES TO THIS DISORDER (LIFETIME OR CURRENT), CIRCLE NO TO K13 AND K14 AND MOVE TO THE NEXT MODULE.

NO YES

MOOD DISORDER WITHPSYCHOTIC FEATURES

CURRENT

K13 ARE 1 OR MORE « b » QUESTIONS FROM K1b TO K6b, CODED YES BIZARRE?

OR

ARE 2 OR MORE « b » QUESTIONS FROM K1b TO K10b, CODED **YES** (RATHER THAN **YES BIZARRE**)?

AND DID AT LEAST TWO OF THE PSYCHOTIC SYMPTOMS OCCUR DURING THE SAME 1 MONTH PERIOD?

NO YES

PSYCHOTIC DISORDER
CURRENT

K14 IS K13 CODED YES

OR

ARE 1 OR MORE « a » QUESTIONS FROM K1a TO K6a, CODED YES BIZARRE?

OR

ARE 2 OR MORE « a » QUESTIONS FROM K1a TO K7a, CODED YES (RATHER THAN YES BIZARRE)

AND DID AT LEAST TWO OF THE PSYCHOTIC SYMPTOMS OCCUR DURING THE SAME 1 MONTH PERIOD?

NO YES

PSYCHOTIC DISORDER
LIFETIME

L. ANOREXIA NERVOSA

(→ MEANS: GO TO THE DIAGNOSTIC BOX, CIRCLE NO, AND MOVE TO THE NEXT MODULE)

L1	а	How tall are you							
	b.	What was your lo		lbs.					
	С		SHT EQUAL TO OR BELOW THE THRESHOLD CORRESPONDING TO P (SEE TABLE BELOW)		→ NO	YES			
		In the past 3 mo	nths:						
L2		-	w weight, have you tried not to gain weight?		→ NO	YES			
L3		Have you intense	ely feared gaining weight or becoming fat, even though you were underw	eight?	NO	YES			
L4	а	Have you conside	ered yourself too big / fat or that part of your body was too big / fat?		NO	YES			
	b	Has your body w	reight or shape greatly influenced how you felt about yourself?		NO	YES			
	С	Have you though	nt that your current low body weight was normal or excessive?		NO →	YES			
L5		ARE 1 OR MORE IT	EMS FROM L4 CODED YES ?		NO	YES			
L6			Y: During the last 3 months, did you miss all your menstrual ey were expected to occur (when you were not pregnant)?		NO	YES			
			Γ						
		FOR WOMEN:	ARE L5 AND L6 CODED YES ?	NO		YES			
		FOR MEN: IS L5 CODED YES ?				ANOREXIA NERVOSA CURRENT			

HEIGHT / WEIGHT TABLE CORRESPONDING TO A BMI THRESHOLD OF 17.5 Kg/m²

Height/Weight														
ft/in	4'9	4'10	4'11	5'0	5'1	5'2	5'3	5'4	5'5	5'6	5'7	5'8	5'9	5'10
lbs.	81	84	87	89	92	96	99	102	105	108	112	115	118	122
cm	145	147	150	152	155	158	160	163	165	168	170	173	175	178
kgs	37	38	39	41	42	43	45	46	48	49	51	52	54	55
Heigh	t/Weigh	t												
ft/in	5'11	6'0	6'1	6'2	6'3									
lbs.	125	129	132	136	140									
cm	180	183	185	188	191									
kgs	57	59	60	62	64									

The weight thresholds above are calculated using a body mass index (BMI) equal to or below 17.5 kg/m² for the patient's height. This is the threshold guideline below which a person is deemed underweight by the DSM-IV and the ICD-10 Diagnostic Criteria for Research for Anorexia Nervosa.

M. BULIMIA NERVOSA

(→ MEANS: GO TO THE DIAGNOSTIC BOXES, CIRCLE NO IN ALL DIAGNOSTIC BOXES, AND MOVE TO THE NEXT MODULE)

M1	In the past three months, did you have eating binges or times when you ate a very large amount of food within a 2-hour period?	NO	YES
M2	In the last 3 months, did you have eating binges as often as twice a week?	→ NO	YES
M3	During these binges, did you feel that your eating was out of control?	→ NO →	YES
M4	Did you do anything to compensate for, or to prevent a weight gain from these binges, like vomiting, fasting, exercising or taking laxatives, enemas, diuretics (fluid pills), or other medications?	NO	YES
M5	Does your body weight or shape greatly influence how you feel about yourself?	→ NO	YES
M6	DO THE PATIENT'S SYMPTOMS MEET CRITERIA FOR ANOREXIA NERVOSA?	NO ↓ Skip t	YES o M8
M7	Do these binges occur only when you are under (Ibs./kgs.)? INTERVIEWER: WRITE IN THE ABOVE PARENTHESIS THE THRESHOLD WEIGHT FOR THIS PATIENT'S HEIGHT FROM THE HEIGHT / WEIGHT TABLE IN THE ANOREXIA NERVOSA MODULE.	NO	YES
M8	IS M5 CODED YES AND IS EITHER M6 OR M7 CODED NO ?		YES <i>A NERVOSA</i> RRENT
	IS M7 CODED YES?	Binge Eatin	YES IA NERVOSA g/Purging Type RRENT

N. GENERALIZED ANXIETY DISORDER

(→ MEANS: GO TO THE DIAGNOSTIC BOX, CIRCLE NO, AND MOVE TO THE NEXT MODULE)

	30	O. RULE OUT MEDICAL, ORGANIC OR DRUG CAUSES FOR ALI	GENERALIZED ANXIETY DISORDER CURRENT		
N4		these anxieties and worries disrupt your normal work, school or cause you significant distress?	NO	YES	
		ARE 3 OR MORE N3 ANSWERS CODED YES?	NO	YES	
	f	Have difficulty sleeping (difficulty falling asleep, waking up in the middle of the night, early morning wakening or sleeping excessively)?	NO	YES	
	е	Feel irritable?	NO	YES	
	d	Have difficulty concentrating or find your mind going blank?	NO	YES	
	С	Feel tired, weak or exhausted easily?	NO	YES	
	b	Have muscle tension?	NO	YES	
	а	Feel restless, keyed up or on edge?	NO	YES	
		FEATURES OF ANY DISORDER EXPLORED PRIOR TO THIS POINT. When you were anxious over the past 6 months, did you, most of the time:			
N3		FOR THE FOLLOWING, CODE NO IF THE SYMPTOMS ARE CONFINED TO			
N2		Do you find it difficult to control the worries?	→ NO	YES	
		ARE THE PATIENT'S ANXIETY AND WORRIES RESTRICTED EXCLUSIVELY TO, OR BETTER EXPLAINED BY, ANY DISORDER PRIOR TO THIS POINT?	NO	→ YES	
ŀ	b	Are these anxieties and worries present most days?	→ NO	YES	
N1 a	d	Were you excessively anxious or worried about several routine things, over the past 6 months? IN ENGLISH, IF THE PATIENT IS UNCLEAR ABOUT WHAT YOU MEAN, PROBE BY ASKING (Do others think that you are a "worry wart") AND GET EXAMPLES.	NO	YES	
NIA .	_	Manayayayayayiyah yanii aya ayyayai ad ahayb ayyayal yaybiya bhiraa	→	VEC	

	O. NOLL OUT MILDICAL, ONGANIC O	IN DRUG CAUSES I ON ALI	. DISON	DLNJ	
	IF THE PATIENT CODES POSITIVE FOR ANY CURRENT DISORE	DER ASK:			
	Just before these symptoms began:				
O1a	Were you taking any drugs or medicines?		□ No	☐ Yes	☐ Uncertain
O1b	Did you have any medical illness?		□ No	☐ Yes	☐ Uncertain
	IN THE CLINICIAN'S JUDGMENT: ARE EITHER OF THESE LIKELY TO BE DIRECT IF NECESSARY ASK ADDITIONAL OPEN-ENDED QUESTIONS.	CAUSES OF THE PATIENT'S DISORDER?			
02	SUMMARY: HAS AN ORGANIC CAUSE BEEN RULED OUT?		□ No	☐ Yes	☐ Uncertain
N.I. 6.0).0 (January 1, 2009)	25			

M.I.N.I. 6.0.0 (January 1, 2009)

P. ANTISOCIAL PERSONALITY DISORDER

(→ MEANS: GO TO THE DIAGNOSTIC BOX AND CIRCLE NO)

. –				
	а	repeatedly skip school or run away from home overnight?	NO	YES
	b	repeatedly lie, cheat, "con" others, or steal?	NO	YES
	С	start fights or bully, threaten, or intimidate others?	NO	YES
	d	deliberately destroy things or start fires?	NO	YES
	e	deliberately hurt animals or people?	NO	YES
	f	force someone to have sex with you?	NO →	YES
		ARE 2 OR MORE P1 ANSWERS CODED YES ?	NO	YES
		DO NOT CODE YES TO THE BEHAVIORS BELOW IF THEY ARE EXCLUSIVELY POLITICALLY OR RELIGIOUSLY MOTIVATED.		
P2		Since you were 15 years old, have you:		
	а	repeatedly behaved in a way that others would consider irresponsible, like failing to pay for things you owed, deliberately being impulsive or deliberately not working to support yourself?	NO	YES
	b	done things that are illegal even if you didn't get caught (for example, destroying property, shoplifting, stealing, selling drugs, or committing a felony)?	NO	YES
	С	been in physical fights repeatedly (including physical fights with your	NO	YES

d often lied or "conned" other people to get money or pleasure, or lied just

f felt no guilt after hurting, mistreating, lying to, or stealing from others, or after damaging property?

ARE 3 OR MORE P2 QUESTIONS CODED YES?

e exposed others to danger without caring?

spouse or children)?

for fun?

Before you were 15 years old, did you:

NO YES

NO

NO

NO

ANTISOCIAL PERSONALITY
DISORDER
LIFETIME

YES

YES

YES

THIS CONCLUDES THE INTERVIEW

Ρ1

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Arabic Bengali Braille (English)

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A validation study of this instrument was made possible, in part, by grants from SmithKline Beecham and the European Commission. The authors are grateful to Dr. Pauline Powers for her advice on the modules on Anorexia Nervosa and Bulimia.

S. Gambhir

J. Goldman, Chana Pollack, Myrna Mniewski

Urdu

Yiddish

MOOD DISORDERS: DIAGNOSTIC ALGORITHM

Caracult Mandulan	Δ.	Major Danuacijus Enjagd				
Consult Modules:	A C K	Major Depressive Episod (Hypo) manic Episode Psychotic Disorders	e			
MODULE K:						
1a IS K11b CC 1b IS K12a CC			NO NO	YES YES		
MODULES A and C:			Current	Past		
2 a CIRCLE YES IF	A DELUSIONAL II	DEA IS IDENTIFIED IN A3e?	YES	YES		
b CIRCLE YES IF	A DELUSIONAL IE	DEA IS IDENTIFIED IN C3a ?	YES	YES		
and		coded YES (current or past)?	?			DEPRESSIVE ORDER
is Manic Episc and	de coded NO (cu	rrent and past)?				current past
is Hypomanic and	Episode coded N	O (current and past)?			MDD	
is " Hypomanio	Symptoms" cod	ed NO (current and past)?			With Psyc Current	hotic Features
Specify: • If the de	epressive episode	is current or past or both			Past	ā
	•	Current: If 1b or 2a (current Past: If 1a or 2a (past) = YES	•			
d Is a Manic Ep Specify:	isode coded YES ((current or past)?				POLAR I FORDER
	olar I Disorder is	current or past or both			Bipolar I Disor Single Manic E	
	gle Manic Episod E (current and pa	e : If Manic episode (current st) = NO	or past) = YE	ΞS		hotic Features
	-	Current: If 1b or 2a (current Past: If 1a or 2a (past) or 2b		ent) = YES	Past	□ □ cent Episode
• If the mo	st recent episodo	e is manic, depressed,			Manic	cent Episode

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Approved McLean IRB 2012p001515 08/31/2012 through 08/30/2013

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mixed or hypomanic or unspecified (all mutually exclusive)

Current (C3 Summary AND C4a AND C6 AND O2) are coded YES

• Unspecified if the Past Manic Episode is coded YES AND

e	Is Major Depressive Episode coded YES (current or past)? and	BIPOLAR II	
	Is Hypomanic Episode coded YES (current or past)? and	DISORDER	
	Is Manic Episode coded NO (current and past)?	current Bipolar II Disorder 🚨	t past
	Specify:	Most Recent Episod	e
	• If the Bipolar Disorder is current or past or both	Hypomanic 📮	
	• If the most recent mood episode is hypomanic or depressed (mutually exclusive)	Depressed \Box	
f	Is MDE coded NO (current and past) and	BIPOLAR DISORDER NOS	
	Is Manic Episode coded NO (current and past)? and is either:	current Bipolar Disorder NOS	past
	1) C7b coded YES for the appropriate time frame?		
	or		
	2) C3 Summary coded YES for the appropriate time frame? and		
	C4a coded VES for the appropriate time frame?		

Specify if the Bipolar Disorder NOS is **current** or **past** or both

C7c coded YES for the appropriate time frame?

M.I.N.I. PLUS

The shaded modules below are additional modules available in the MINI PLUS beyond what is available in the standard MINI. The un-shaded modules below are in the standard MINI.

These MINI PLUS modules can be inserted into or used in place of the standard MINI modules, as dictated by the specific needs of any study.

	MODULES	TIME FRAME
Α	MAJOR DEPRESSIVE EPISODE	Current (2 weeks)
		Past
		Recurrent
	MOOD DISORDER DUE TO A GENERAL MEDICAL CONDITION	Current
		Past
	SUBSTANCE INDUCED MOOD DISORDER	Current
	MDE WITH MELANCHOLIC FEATURES	Past Current (2 weeks)
	MIDE WITH MELANCHOLIC FEATORES	Current (2 weeks)
	AADE MUTUL ATVOICAL FEATURES	6
	MDE WITH ATYPICAL FEATURES	Current (2 weeks) Current (2 weeks)
	MDE WITH CATATONIC FEATURES	current (2 weeks)
В	DYSTHYMIA	Current (Past 2 years)
		Past
C	SUICIDALITY	Current (Past Month)
		Risk: 🗖 Low 🗖 Medium 🗖 High
D	MANIC EPISODE	Current
		Past
	HYPOMANIC EPISODE	Current
	BIPOLAR I DISORDER	Past Current
	DII GEAN I DIGONDEN	Past
	BIPOLAR II DISORDER	Current
		Past
	BIPOLAR DISORDER NOS	Current
		Past
	MANIC EPISODE DUE TO A GENERAL MEDICAL CONDITION	Current
		Past
	HYPOMANIC EPISODE DUE TO A GENERAL MEDICAL CONDITION	Current
	CURSTANOS INDUSTRA A A ANO SPIGATA	Past
	SUBSTANCE INDUCED MANIC EPISODE	Current Past
	SUBSTANCE INDUCED HYPOMANIC EPISODE	Current
	SSSSGE INDUCED THE OWNERS EF ISODE	Past
Ε	PANIC DISORDER	Current (Past Month)
		Lifetime
	ANXIETY DISORDER WITH PANIC ATTACKS DUE TO A	Current
	GENERAL MEDICAL CONDITION	Current
	SUBSTANCE INDUCED ANXIETY DISORDER WITH PANIC ATTACKS	Current
F	AGORAPHOBIA	Current
G	SOCIAL PHOBIA (Social Anxiety Disorder)	Current (Past Month)
Н	SPECIFIC PHOBIA	Current
I	OBSESSIVE-COMPULSIVE DISORDER	Current (Past Month)
	OCD DUE TO A GENERAL MEDICAL CONDITION	Current
	SUBSTANCE INDUCED OCD	Current (Past Manth)
J K	POSTTRAUMATIC STRESS DISORDER ALCOHOL DEPENDENCE	Current (Past Month) Past 12 Months
N	ALCOHOL DEPENDENCE ALCOHOL DEPENDENCE	Lifetime
	ALCOHOL DEPENDENCE ALCOHOL ABUSE	Past 12 Months
	ALCOHOL ABUSE	Lifetime
L	SUBSTANCE DEPENDENCE (Non-alcohol)	Past 12 Months
	SUBSTANCE DEPENDENCE (Non-alcohol)	Lifetime
	SUBSTANCE ABUSE (Non-alcohol)	Past 12 Months

М	PSYCHOTIC DISORDERS	Lifetime
	AAOOD DICODDED WITH DOVCHOTIC FEATURES	Current
	MOOD DISORDER WITH PSYCHOTIC FEATURES	Current
	SCHIZOPHRENIA	Current Lifetime
	SCHIZOAFFECTIVE DISORDER	Current
	SCHIZOALI ECTIVE DISORDER	Lifetime
	SCHIZOPHRENIFORM DISORDER	Current
		Lifetime
	BRIEF PSYCHOTIC DISORDER	Current
		Lifetime
	DELUSIONAL DISORDER	Current
		Lifetime
	PSYCHOTIC DISORDER DUE TO A GENERAL MEDICAL CONDITION	Current
		Lifetime
	SUBSTANCE INDUCED PSYCHOTIC DISORDER	Current
		Lifetime
	PSYCHOTIC DISORDER NOS	Current
	14000 DIGODDED WITH DOVOLOTIC FEATURES	Lifetime
	MOOD DISORDER WITH PSYCHOTIC FEATURES	Lifetime
	MOOD DISORDER NOS	Lifetime
	MAJOR DEPRESSIVE DISORDER WITH PSYCHOTIC FEATURES	Current Past
	BIPOLAR I DISORDER WITH PSYCHOTIC FEATURES	Current
	BII OB III I BISONDER WITH I STOTIONE LEATONES	Past
N	ANOREXIA NERVOSA	Current (Past 3 Months)
0	BULIMIA NERVOSA	Current (Past 3 Months)
	BULIMIA NERVOSA PURGING TYPE	Current
	BULIMIA NERVOSA NONPURGING TYPE	Current
	ANOREXIA NERVOSA, BINGE EATING/PURGING TYPE	Current
	ANOREXIA NERVOSA, RESTRICTING TYPE	Current
Р	GENERALIZED ANXIETY DISORDER	Current (Past 6 Months)
	GENERALIZED ANXIETY DISORDER DUE TO A GENERAL MEDICAL CONDITION	Current
	SUBSTANCE INDUCED GAD	Current
Q	ANTISOCIAL PERSONALITY DISORDER	Lifetime
R	SOMATIZATION DISORDER	Lifetime
		Current
S	HYPOCHONDRIASIS	Current
Т	BODY DYSMORPHIC DISORDER	Current
U	PAIN DISORDER	Current
V	CONDUCT DISORDER	Past 12 Months
W	ATTENTION DEFICIT/HYPERACTIVITY	Past 6 Months
	DISORDER (Children/Adolescents)	Pf.C
	ATTENTION DEFICIT/HYPERACTIVITY	Lifetime
v	DISORDER (Adults)	Current Current
X Y	ADJUSTMENT DISORDERS PREMENSTRUAL DYSPHORIC DISORDER	Current
Y Z	MIXED ANXIETY-DEPRESSIVE DISORDER	Current
_	WILVED AWAIL I I-DEI NESSIVE DISONDEN	Current



WECHSLER ABBREVIATED SCALE OF INTELLIGENCE™

Record Form

Profile of

			Year	Month	Day
Name	ID	Date of Testing			
Address/School	Grade/ Highest Education	Date of Birth			
Examiner		Age			

Subtest Scores								
Subtest	Raw Score	7 Score						
Vocabulary								
Block Design								
Similarities		<u> </u>						
Matrix Reasoning								
	Sums of TScores		Verbal Performance					
7			4-Subtest Bull-Scale					

	WASI IQ Scores				Prediction Intervals			
	Sum of	IQ	Percentile	% Confidence	WISC-III		WAIS-III	
	T Scores			interval	90%	68%	90%	68%
Verb.				-				
Perf.								
Full-4				-	-	_	-	-

Full-2		-

•	s		ile of Score	es
	Vei	bal	Perfor	mance
	V	S	BD	MR
80				1
75				
70				
65				
60				
55				
50				
5				1
0				
15				
80				
5				
20				

	IC	Score	es
	VIQ	PIQ	FSIQ
160	#		#
155		畫	1
150			#
145			#
140			#
135	1		4
130			
125	畫	#	4
120	畫	#	#
115		#	畫
110			#
105	#	#	1
100		#2	
95	#	4	#
90	#	#	#
85	#	#	#
80	#	#	#
75	#	#	#
70	#	#	
65	#		#
60			
55	*		#
50		攀	

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16 17 18 19 20 21 McLean IRBE 281099-1 321

9 780 154 98 1530

1. Vocabulary



Start Point

Ages 6-8: Item 5 Ages 9-89: Item 9



Reverse Rule

All Ages: Administer Items 1-4 in forward sequence if score of 0 or 1 on Item 5 or 6.

Ages 9-89: Administer Items 5-8 in reverse sequence if score of 0 or 1 on Item 9 or 10.



Discontinue Rule

After 5 consecutive scores of 0



Stop Point

Ages 6-8: After Item 30 Ages 9-11: After Item 34 Ages 12-16: After Item 38 Ages 17-89: No stop point



Scoring Rule

Items 1-4: 0 or 1 Items 5-42: 0, 1, or 2

<u> </u>	ltem	Response	
1	. Fish	NO SPOTISO	Score
			(0 or 1)
2		i i	
3	. Map		
4.	Shell		
5.	Shirt		(0, 1, 2)
6.	Shoe		
7.	Flashlight		
8.	Car		
9.	Bird		
10.	Calendar		
11.	Number		
12.	Bell		
13.	Lunch		
14.	Police		
15.	Vacation		
16.	Pet		
17.	Balloon		
18.	Transform		
19.	Alligator		

1. Vocabulary (Confinued)

	No. or		
	ltem	Response	Score
	20. Cart		(0, 1, 2)
	21. Blame		
	22. Dance		
	23. Purpose		
	24. Entertain		_
	25. Famous		
	26. Reveal		
	27. Decade		
	28. Tradition		
	29. Rejoice		
6-8 STOP	30. Enthusiastic		
	31. Improvise		
	32. Impulse		
	33. Haste		
9-11 STOP	34. Trend		
	35. Intermittent		
	36. Devout		-
	37. Impertinent		
12-16 STOP	38. Niche		+
	39. Presumptuous		
	40. Formidable		
	41. Ruminate	·	
is L	42. Panacea		
		Maximum Raw Score Ages 6–8: 56 Total Ages 9–11: 64 Raw Score Ages 12–16: 72 Ages 17–89: 80	-4

Approved McLean IRB 2012p001515 08/31/2012 through 08/30/2013

2. Block Design





Start Point

Ages 6-8: Design 1

Ages 9-89: Design 3

Reverse Rule

Ages 9-89: Administer Items 1-2 in reverse sequence if score of 0 or 1 on Item 3 or 4.



Discontinue Rule

After 3 consecutive scores of 0



Scoring Rule

Items 1-4:

2 for a correct design on Trial 1

I for a correct design on Trial 2 0 for incorrect designs on Trials 1 & 2

	Design		me mit		orrect sign	Complet Time i Second	n I	Correct Design		(Ci	ircle the ap	Sc. propriate	ore score for e	each design
6-8	1.	30	1.	Trial 1	Trial 2			ΥN	1) 1			
	2.	60	" T	rial 1	Trial 2			YN	-	0		2		
-89	3. K	60'	T,	rial 1	Trial 2		1	Y N	-	0	1			
-	4.	60"	Tri	ial 1	Trial 2			YN		0	· 1	2		
	5.	60"		H]			Y N		0	21'-60' 4	" 16"–20° 5	' 11*–15* 6	1"-10" 7
6	X	60"		\blacksquare]			Y N		0	21"-60" 4	16'-20' 5	11"–15" 6	1*-10* 7
7.		60"						Y N		0	21"-60" 4	16"20" 5	11*~15* 6	1"-10" 7
8.		60"						Y N		0	21"-60" 4	16"-20" 5	11"–15" 6	1"-10" 7
9.		60"					1,	'N		0	21"-60" 4	16"-20" 5	11"–15" 6	1'-10' 7
10.		120"					Y	N		0	66"-120" 4	46"-65" 5	31"-45" 6	1"-30" 7
11.	S	120"	E				Y	N		0	76"-120" 4	56"-75" 5	41"-55" 6	1"-40" 7
12.		120"	<		,		Υ	N		0	76"-120" 4	56"-75" 5	41"–55" 6	1"-40" 7
13.	8	120"	\Diamond	\bigotimes			Y	N		0	76"-120" 4	56"-75" 5	41"-55" 6	1"-40" 7

Maximum Raw Score All Ages:

Total **Raw Score**

3. Similarities



Start Point

Ages 6-8: Item 1 Ages 9-11: Item 5 Ages 12-89: Item 7



Reverse Rule

Ages 9-89: Administer Items 1-4 in forward sequence if score of 0 or 1 on Item 5 or 6.

Ages 12-89: Administer Items 5 & 6 in reverse sequence if score of 0 or 1 on Item 7 or 8.



Discontinue Rule

After 4 consecutive scores of 0



Stop Point

Ages 6-8: After Item 20 Ages 9-11: After Item 24 Ages 12-89: No stop point



Scoring Rule

Items 1-4: 0 or 1 Items 5-26: 0, 1, or 2

Item	Response						
1. Four-Wheeled	Ship	BUS	Bike	Train	Score (0 or 1)		
2. Dining Items	SPOON	Pan	Bowl	Can Opener	1		
3. Clothing	Jump Rope	Ball	SHOES	Crayons			
4. Fruits	BANANA	Bean	Pumpkin	Potato	1		
5. Red-Blue					(0, 1, 2)		
6. Circle-Square					 		
7. Grapes-Strawberries			-				
8. Cow-Bear							
9. Plane-Bus							
10. Shirt-Jacket							
11. Pen-Pencil							
12. Bowl-Plate							
13. Love-Hate							
14. TV-Newspaper							
15. Smooth-Rough							
16. Shoulder-Ankle		~					
17. Sit-Run							
18. Child-Adult							
20. Bird-Flower 21. More-Less							
21. Mora-Less							
22. Photograph-Song.							

3. Similarities (Continued)

[Item Response	Score (0, 1, 2)
	23.	Peace-War	
STOP	24.	Capitalism-Socialism	
SIOP	25.	Tradition-Habit	
	26.	Freedom-Law	

Maximum Raw Score

Ages 6-8: 36 44 Ages 9-11: Ages 12-89: 48 **Total**

Raw Score

4. Matrix Reasoning



9-11

Start Point

Administer Sample Items A and B first.

Ages 6-8: Item 1 Ages 9-11: Item 5

Ages 45-79: Item 5 Ages 80-89: Item 1

Ages 12-44: Item 7

Reverse Rule

Ages 9-11 and Ages 45-79: Administer Items 1-4 in reverse sequence if score of 0 on Item 5 or 6.

Ages 12-44: Administer Items 1-6 in reverse sequence if score of 0 on Item 7 or 8.



Discontinue Rule

After 4 consecutive scores of 0 or after 4 scores of 0 on 5 consecutive items



Stop Point

Ages 6-8: After Item 28 Ages 9-11: After Item 32 Ages 12-44: No stop point Ages 45-79: After Item 32 Ages 80-89: After Item 28



Scoring Rule

Items 1-35: 0 or 1

Score

	Item		Score (0 or 1)					
t	Α.	1	2	3	4	5	DK	
	В.	1	2	3	4	5	DK	
6-8 30-89		1	2	3	4	5	DK	
	2.	1	2	3	4	5	DK	
Ì	3.	1	2	3	4	5	DK	
	4.	1	2	3	4	5	DK	
9-11 45-79		1		3	4	5	DK	
	6.	1	2	3	4	5_	DK	
12-4		1	2	3	4	5_	DK	
	8.	1	2	3	4	5	DK	
	9.	1	2	3	4	5	DK	
	10.	1	2	3	4	5	DK	
	11.	1	2	3	4	5	DK	
	12.	1	2	3	4	5	DK	
	13.	1	2	3	4	5	DK	
	14.	1	. 2	3	4	5	DK	
	15.	1	2	3	4	5	DK	
	16.	1	· 2	3	4	5	DK	
	17.	1	. 2	3	4	5	DK	

-	Item			F	espor (Cin	ise Or cle Or			(0 or 1)
t	18.	1		2	3	4	5	DK	
t	19.	1		2	3	4	5	DK	
t	20.	1		2	3	4	5	DK	
ı	21.	1		2	3	4	5_	DK	
Ì	22.	1		2	3	4	5	DK	
	23.	1		2	3	4	5	DK	
	24.	1		2	3	4	5	DK	
	25.	1		2	3	4	5	DK	
	26.	1		2	3	4	5	DK	
	27.	1		2	3	4	5	DK_	
_	28.	1		2	3	4	5	DK	
ТОР	29.	1	<u> </u>	2	3	4	5	DK	
	30.	1	1	2	3	4	5	DK	
	31.		1	2	3	4	5	DK	1
	32		1	2	3	4	5	DK	13.2
ТОР	33.		1	2	3	4	5	DK	
	34.		1	2	3	4	5	DK	
	35.		1	2	3	4	5	DK	
			_						19-20-70

Maximum Raw Score Ages 6-8: 28

Ages 9-11: 32

Ages 12-44: 35 Ages 45-79: 32





Ohio State University TBI Identification Method Short Form*

I would like to ask you about injuries to your head or neck that you may have had at anytime in your life. *Interviewer instruction:* Record cause and any details provided spontaneously in the box at the bottom of the page. DO NOT query further about LOC or other details at this stage.

1.	Have you ever been hospitalized or treated in an emergency room following an injury to your head or neck? Think about any childhood injuries you remember or were told about. ☐ Yes—Record cause(s) in table below ☐ No											
2.	Have you ever injured your head or neck in a car accident or from some other moving vehicle accident (e.g. motorcycle, ATV)? ☐ Yes—Record cause(s) in table below ☐ No											
3.	Have you ever injured your head or neck in a fall or from being hit by something (e.g. falling from a bike, horse, or rollerblades, falling on ice, being hit by a rock)? Have you ever injured your head or neck playing sports or on the playground? ☐ Yes—Record cause(s) in table below ☐ No											
4.	Have you ever injured your head or neck in a fight, from being hit by someone, or from being shaken violently? Have you ever been shot in the head? ☐ Yes—Record cause(s) in table below ☐ No											
5.	Have you ever been nearly combat- or training-related Yes—Record cause(s) ☐ No	ed incidents.	osion or a blast	occurred? If you	served in the m	ilitary, think	about an	ny				
6.	If all above are "no" then for each injury: Were yo dazed or did you have a was LOC)	ou knocked or d	id you lose con	sciousness (LOC)? If yes, how	long? If no	, were yo	ou				
	Cause			ess (LOC)/knocked ou	t	Dazed/Mer	nory Gap	Age				
		No LOC	< 30 min	30 min-24 hrs	> 24 hrs.	Yes	No					
<u>f m</u>	ore injuries with LOC: Ho	w many more?	Longest kno	cked out? Hov	$v \text{ many} \ge 30 \text{ m}$	ins.? Yo	ungest ag	e?				
	Have you ever lost consc		_	-				io1				

 β reserved 2007, The Ohio Valley Center for Brain Injury Prevention and Rehabilitation

reliability and validity of the OSU TBI Identification Method. J Head Trauma Rehabil, 22(6):318-329,

SCORING
TBI-LOC (number of TBI's with loss of consciousness from #6a)
TBI-LOC \geq 30 (number of TBI's with loss of consciousness \geq 30 minutes from #6a)
age at first TBI-LOC (youngest age from #6a)
TBI-LOC before age 15 (if youngest age from #7B < 15 then =1, if \geq 15 then = 0)
Worst Injury (1-5):
If responses to #1-5 are "no" classify as 1 "improbable TBI".
If in response to #6a and 6b reports never having LOC, being dazed or having memory lapses classify as
"improbable TBI".
If in response to #6b reports being dazed or having a memory lapse classify as 2 "possible TBI".
If in response to #6a loss of consciousness (LOC) does not exceed 30 minutes for any injury classify as 3
"mild TBI"
If in response to #6a LOC for any one injury is between 30 minutes and 24 hours classify as 4 "moderate
TBI".
If in response to #6a LOC for any one injury exceeds 24 hours classify as 5 "severe TBI".
anoxic injuries (sum of incidents reported in #7)

Rivermead Post Concussion Symptoms Questionnaire

Modified (Rpq-3 And Rpq-13)⁴² Printed With Permission: Modified Scoring System From Eyres 2005 ²⁸

Name:	Date:
1 1011101	Dato.

After a head injury or accident some people experience symptoms that can cause worry or nuisance. We would like to know if you now suffer any of the symptoms given below. Because many of these symptoms occur normally, we would like you to compare yourself now with before the accident. For each symptom listed below please circle the number that most closely represents your answer.

0 = not experienced at all

1 = no more of a problem

2 = a mild problem

3 = a moderate problem

4 = a severe problem

Compared with **before** the accident, do you **now** (i.e., over the last 24 hours) suffer from:

	not experienced	no more of a problem	mild problem	moderate problem	severe problem
Headaches	0	1	2	3	4
Feelings of dizziness	0	1	2	3	4
Nausea and/or vomiting	0	1	2	3	4
Noise sensitivity (easily upset by loud noise)	0	1	2	3	4
Sleep disturbance	0	1	2	3	4
Fatigue, tiring more easily	0	1	2	3	4
Being irritable, easily angered	0	1	2	3	4
Feeling depressed or tearful	0	1	2	3	4
Feeling frustrated or impatient	0	1	2	3	4
Forgetfulness, poor memory	0	1	2	3	4
Poor concentration	0	1	2	3	4
Taking longer to think	0	1	2	3	4
Blurred vision	0	1	2	3	4
Light sensitivity (easily upset by bright light)	0	1	2	3	4
Double vision	0	1	2	3	4
Restlessness	0	1	2	3	4
Are you experiencing any other d	ifficulties? Pleas	se specify, and	rate as above.		
1.	0	1	2	3	4
2.	0	1	2	3	4

Administration only:

RPQ-3 (total for first three items)	
RPQ-13 (total for next 13 items)	

http://www.maa.nsw.gov.au/default.aspx?MenulD=148

Rivermead Post Concussion Symptoms Questionnaire (cont.)

Modified (Rpg-3 And Rpg-13)⁴² Printed With Permission: Modified Scoring System From Eyres 2005 ²⁸

Administration only

Individual item scores reflect the presence and severity of post concussive symptoms. Post concussive symptoms, as measured by the RPQ, may arise for different reasons subsequent to (although not necessarily directly because of) a traumatic brain injury. The symptoms overlap with broader conditions, such as pain, fatigue and mental health conditions such as depression⁷².

The questionnaire can be repeated to monitor a patient's progress over time. There may be changes in the severity of symptoms, or the range of symptoms. Typical recovery is reflected in a reduction of symptoms and their severity within three months.

Scoring

The scoring system has been modified from Eyres, 2005²⁴.

The items are scored in two groups. The first group (RPQ-3) consists of the first three items (headaches, feelings of dizziness and nausea) and the second group (RPQ-13) comprises the next 13 items. The total score for RPQ-3 items is potentially 0–12 and is associated with early symptom clusters of post concussive symptoms. If there is a higher score on the RPQ-3, earlier reassessment and closer monitoring is recommended.

The RPQ-13 score is potentially 0–52, where higher scores reflect greater severity of post concussive symptoms. The RPQ-13 items are associated with a later cluster of symptoms, although the RPQ-3 symptoms of headaches, dizziness and nausea may also be present. The later cluster of symptoms is associated with having a greater impact on participation, psychosocial functioning and lifestyle. Symptoms are likely to resolve within three months. A gradual resumption of usual activities is recommended during this period, appropriate to symptoms. If the symptoms do not resolve within three months, consideration of referral for specialist assessment or treatment services is recommended.

References:

Eyres, S., Carey, A., Gilworth, G., Neumann, V., Tennant, A. (2005). Construct validity and reliability of the Rivermead Post Concussion Symptoms Questionnaire. *Clinical Rehabilitation*, 19, 878-887.

King, N. S., Crawford, S., Wenden, F.J., Moss, N.E.G. Wade, D.T. (1995). The Rivermead Post Concussion Symptoms Questionnaire: a measure of symptoms commonly experienced after head injury and its reliability *Journal of Neurology*, 242, 587-592.

Potter, S., Leigh, E., Wade, D., Fleminger, S. (2006). The Rivermead Post Concussion Symptoms Questionnaire *Journal of Neurology*, October 1-12.

http://www.maa.nsw.gov.au/default.aspx?MenuID=148

Satisfaction with Life Scale

Below are five statements with which you may agree or disagree. Indicate your agreement with each item by placing the appropriate number on the line preceding that item. Please be open and honest in your responding. The 7-point scale is as follows: 1 = strongly disagree 2 = disagree 3 = slightly disagree 4 = neither agree nor disagree 5 = slightly agree 6 = agree 7 = strongly agree 1. In most ways my life is close to my ideal. ___ 2. The conditions of my life are excellent. 3. I am satisfied with my life. __ 4. So far I have gotten the important things I want in life. 5. If I could live my life over, I would change almost nothing.

Box 10

The Alcohol Use Disorders Identification Test: Self-Report Version

PATIENT: Because alcohol use can affect your health and can interfere with certain medications and treatments, it is important that we ask some questions about your use of alcohol. Your answers will remain confidential so please be honest.

Place an X in one box that best describes your answer to each question.

Questions	0	1	2	3	4	
How often do you have a drink containing alcohol?	Never	Monthly or less	2-4 times a month	2-3 times a week	4 or more times a week	
How many drinks containing alcohol do you have on a typical day when you are drinking?	1 or 2	3 or 4	5 or 6	7 to 9	10 or more	
How often do you have six or more drinks on one occasion?	Never	Less than monthly	Monthly	Weekly	Daily or almost daily	
How often during the last year have you found that you were not able to stop drinking once you had started?	Never	Less than monthly	Monthly	Weekly	Daily or almost daily	
5. How often during the last year have you failed to do what was normally expected of you because of drinking?	Never	Less than monthly	Monthly	Weekly	Daily or almost daily	
6. How often during the last year have you needed a first drink in the morning to get yourself going after a heavy drinking session?	Never	Less than monthly	Monthly	Weekly	Daily or almost daily	
7. How often during the last year have you had a feeling of guilt or remorse after drinking?	Never	Less than monthly	Monthly	Weekly	Daily or almost daily	
How often during the last year have you been unable to remember what happened the night before because of your drinking?	Never	Less than monthly	Monthly	Weekly	Daily or almost daily	
Have you or someone else been injured because of your drinking?	No		Yes, but not in the last year		Yes, during the last year	
10. Has a relative, friend, doctor, or other health care worker been concerned about your drinking or suggested you cut down?	No		Yes, but not in the last year		Yes, during the last year	
					Total	

DAY OF SCAN INFORMATION QUESTIONNAIRE

SUBJECT #:		DATE:/
DATE OF BIRTH		/nonth year
AGE		_ years
HEIGHT		_ ft/inches
WEIGHT		_ lbs
SEX	☐ MALE	Females only: When was the start of your last menstrual period? Be as precise as possible. Date of period: or aboutdays ago.
RIGHT or LEFT-HANDED?		☐ RIGHT ☐ LEFT ☐ BOTH/NEITHER
Do you have any problems with r	reading? 🔲 N	O

you have obta	ined? Please choose one:
☐ 9th Grade	
☐ 10th Grade	
11th Grade	
12th Grade	
☐ High school	•
☐ GED or eq	
☐ Some colle	ege, no degree
☐ Associate	degree: occupational, technical, or vocational program
☐ Associate	degree: academic program
☐ Bachelor's	degree (e.g., BA, AB, BS, BBA)
☐ Master's de	egree (e.g., MA, MS, MEng, MEd, MBA)
☐ Profession	al school degree (e.g., MD, DDS, DVM, JD)
☐ Doctoral de	egree (e.g., PhD, EdD)
Unknown	
Are you curre	ntly doing shift work (e.g., working early morning, evening, or night shifts?
☐ NO	☐ YES
Do you engag	e in regular exercise?
□ NO	☐ YES
	Which sport?
	How many days per week?
	How many minutes per exercise session (on average)?

EDUCATION: What is the highest grade or level of school you have completed or the highest degree

CAFFEINE USE

Did you have any c	caffeine containing products today?	
□ NO□ YES	How much?	
On average, how m	nany cups (=8oz) of caffeinated coffee do you drink per day?	
On average, how m	nany cups (=8oz) of caffeinated tea do you drink per day?	
On average, how m	nany cans of caffeinated soda do you drink per day?	
On average, how m	nany caffeinated sports drinks do you drink per day?	(brand
Do you use any oth	ner caffeinated products (e.g. Vivarin)?	
□ NO □ YES	Brand?	
	How much?	
	How often?	

NICOTINE AND OTHER SUBSTANCE USE Do you currently smoke cigarettes? □ NO How many? _____ daily / weekly / monthly / yearly (circle one) _____ years _____ months For how long? _____ □ NO Have you tried to quit? ☐ YES How many times? Have you ever smoked cigarettes in the past? | YES How many? daily / weekly / monthly / yearly (circle one) For how long? _____ years ____ months When did you quit? _____ (approximate date) Do you currently smoke large cigars? ☐ YES How many? _____ daily / weekly / monthly/ yearly (circle one) For how long? _____ years ____ months Have you tried to quit? □ NO ☐ YES How many times? Have you ever smoked large cigars in the past? ☐ YES How many? daily / weekly / monthly / yearly (circle one) For how long? _____ years _____ months When did you quit? (approximate date)

Do you currently smoke small cigars? ☐ YES How many? daily / weekly / monthly/ yearly (circle one) _____ years ____ months For how long? Have you tried to guit? □NO ☐ YES How many times?

Have you eve	er smoked small cigars in the past	?	
□ NO	☐ YES		
	How many?	daily / weekly / monthly	yearly (circle one)
	For how long?	years	months
	When did you quit?		_ (approximate date)
Do you curre	ntly smoke cigarillos?		
NO	☐ YES		
	How many?	daily / weekly / monthly	yearly (<i>circle one</i>)
	For how long?		
		NO SES	
	•	How many times	?
Have you eve	er smoked cigarillos in the past?		
□ NO	☐ YES		
	How many?	daily / weekly / monthly	yearly (<i>circle one</i>)
	For how long?	years	months
	When did you quit?		_ (approximate date)
Do you curre	ntly use smokeless tobacco, such	as dip or chew?	
□ NO	☐ YES		
	About how much/ many?	daily / weekly / monthly	/ yearly (circle one)
	For how long?	years	months
	Have you tried to quit?	NO YES	
		How many times	?
	er used smokeless tobacco in the	past?	
☐ NO	☐ YES		
	About how much/ many?		
	For how long?	years	months
	When did you quit?		_ (approximate date)
	ntly use any other nicotine-contair	ning products?	
□ NO	☐ YES		

	Which kind?			
	For how long?			months
	How often?			
	Have you tried to quit?	□ NO	☐ YES	
			How many times	?
Have you e	ever used any other kind of nic	cotine containin	ng products?	
□ NO	☐ YES			
	Which kind?			
	For how long?	yea	ars	months
	How often?			
	Have you tried to quit?	☐ NO	☐ YES	
			How many times	?
Are you cu	rrently taking diet pills?			
□ NO	☐ YES			
	What brand?			
	For how long?	years	months	days
	How much?			
	How often?	da	ily / weekly / monthly	/ yearly (circle one
'	rrently taking any medications	, vitamins, or s	supplements?	
NO	☐ YES			
	Please list:		_	
	Name:		Dosage:	
	Name:			
	Name:			
	Name:		Dosage:	
_ ′	ever used marijuana?			
□ NO	☐ YES			
	At what age did you start?			
	On approximately how ma	ny occasions l	nave you used mariju	ana?
	At what age did you quit?			

	year, did you use marijuana?
☐ NO	☐ YES
	How often? daily / weekly / monthly / yearly (circle one)
Do you curi	rently use marijuana?
\square NO	☐ YES
	How often? daily / weekly / monthly / yearly (circle one)
	Have you tried to quit?
	How many times?
Have you e	ver used any other street drugs?
□ NO	☐ YES
	What?
	How much?
	How often?
	What? How much? How often?
Do you cur	rently use any other street drugs?
□ NO	YES
	What?
	How much?
	How often?
Do you drin	k alcohol?
□ NO	☐ YES
	How many times per month?
	Using the below chart, what is the average number of drinks you consume on these
	occasions?
	Using the chart, what is the largest number of drinks you consume?

One drink equals:



INFORMATION ON THE MOST RECENT DOCEMENTED INJURY

Injury date	and time:/_	/ :(24 hour clock)
	(da	ay /month/ year)
What happe	ened?	
Did you exp	perience any symptoms or ch	anges after the injury?
□ NO	YES, IMMEDIATELY	AFTER THE INJURY
	☐ YES, <u>NOT</u> IMMEDIA	TELY AFTER THE INJURY
	Which symptoms or char	nges did you experience?
		· · · · · · · · · · · · · · · · · · ·
At the time	of the injury, were you under	the influence of alcohol, medication or drugs at that time?
☐ NO	YES, ALCOHOL	
	YES, MEDICATION	(which?)
	☐ YES, DRUGS (which	?)
Were medi	cal services received after in	ury?
□ NO	☐ DO NOT KNOW	☐ YES
Did you "se	e stars" during your last cond	cussion?
□ NO	\square DO NOT KNOW	☐ YES
Did you exp	perience loss of consciousne	ss?
□ NO □ I	DO NOT KNOW	☐ YES
		Duration of loss of consciousness:

] <1 minute
] 1-29 minutes
		30-59 minutes
] 1-24 hours
] 1-7 days
] > 7 days
] Unknown
How was the loss of cons	ciousness verified?	
☐ Self-report	☐ Witness	
Do you have a PERSONA	AL memory of the eve	ent/ incident itself?
☐ YES, I FULLY REME	MBER	BUT THERE ARE GAPS IN MY MEMORY
	☐ NO, I	DO NOT REMEMBER AT ALL
	How muc	h do you NOT remember after the injury?
] <1 minute
] 1-29 minutes
		30-59 minutes
] 1-24 hours
] 1-7 days
] > 7 days
] Unknown
How was the memory los	s verified?	
☐ Self-report	☐ Witness	
After the injury, when did	you feel back to your	self or 100%?

SLEEP HABITS

How much s	sleep did you get last night? HRS	
Before your	r injury, what time did you typically awaken on:	
	ekdays (Mon-Fri)? AM PM (midnight = 12 AM; noon = 12 PM)	
	ekends (Sat-Sun)? AM PM	
<u>Before</u> your	r injury, how long did it typically take you to fall asleep at night?	
Wee	ek nights (Sun-Thur) MIN HRS (midnight = 12 AM; noon = 12 PN	Л)
Wee	ekends (Fri-Sat) MIN HRS	
Before your	r injury, at what time did you normally go to bed at night on:	
Wee	ek nights (Sun-Thur)? AM PM (midnight = 12 AM; noon = 12 PM)	1
Wee	ekends (Fri-Sat)? AM PM	
Before the i	injury, did you experience sleep problems?	
□ NO	☐ YES, I had trouble falling asleep.	
	How often? times per WEEK MONTH YEAR	
	☐ YES, I had trouble staying asleep.	
	How often? times per WEEK MONTH YEAR	
Since the in	njury, did you notice that your sleep became worse?	
□ NO	YES	
	What sleep problems became more noticeable to you? (check all that apply)	
	☐ I get sleepier during the day.	
	☐ I get drowsier than I used to when trying to concentrate or work.	
	☐ I fall asleep when I should not.	
	☐ It is harder to stay alert during the day.	
	☐ It is harder to fall asleep at night.	
	How often? times per WEEK MONTH YEAR	
	☐ I fall asleep much later than I used to.	

☐ I fall asleep much earlier than I used to.
☐ I sleep later in the morning than I used to.
☐ I have trouble staying asleep.
How often? times per WEEK MONTH YEAR
☐ I wake up much earlier in the morning than I used to.
☐ When I do sleep, it is fitful or less restful than it used to be.
☐ I wake up off and on throughout the night more than I used to.
☐ I have more nightmares than I used to.
Since your injury, how much do you typically sleep on weeknights (Sun-Thur)? HRS
Since your injury, how much do you typically sleep on weekend nights (Fri-Sat)? HRS
Since your injury, at what time do you normally go to bed at night on:
Week nights (Sun-Thur)? AM PM (midnight = 12 AM; noon = 12 PM)
Weekends (Fri-Sat)? AM PM
Since your injury, what time do you typically awaken on:
Weekdays (Mon-Fri)? AM PM
Weekends (Sat-Sun)? AM PM
Since your Injury, how long does it typically take you to fall asleep at night?
Week nights (Sun-Thur)? MIN HRS
Weekends (Fri-Sat)? MIN HRS
Since your injury,
at what time of day do you feel sleepiest? AM PM
at what time of day do you feel most alert? AM PM
how many hours do you need to sleep to feel your best?
if you get less than hours of sleep, you notice impairment in your ability to function at
work.
if you get more than hours of sleep, you notice impairment in your ability to function a
work.

Since your i	njury, do you take more than two daytime haps per month?
□ NO	☐ YES
	How many times per week do you nap?
	At what time?:AM/PM to:AM/PM
Do you consi	der yourself a light, normal, or heavy sleeper?
LIGHT	□ NORMAL □ HEAVY
Have you bee	en told or do you think that you snore excessively?
Have you eve	er been diagnosed or treated for sleep apnea or sleep disordered breathing?
□ NO	☐ YES
Is daytime sle	eepiness currently a problem for you?
□NO	☐ YES

Epworth Sleepiness Scale

How likely are you to doze off or fall asleep in the following situations, in contrast to feeling just tired? This refers to your **usual way of life in recent times**. Even if you have not done some of these things recently try to work out how they would have affected you. Use the following scale to choose the most appropriate number for each situation:

0 = would never doze

1 = slight chance of dozing

2 = moderate chance of dozing

3 = high chance of dozing

SITUATION	CHANCE OF DOZING			
Sitting and reading	0	1	2	3
Watching TV	0	1	2	3
Sitting, inactive in a public place (e.g. a theater or meeting)	0	1	2	3
As a passenger in a car for an hour without a break	0	1	2	3
Lying down to rest in the afternoon when circumstances permit	0	1	2	3
Sitting and talking to someone	0	1	2	3
Sitting quietly after a lunch without alcohol	0	1	2	3
In a car, while stopped for a few minutes in the traffic	0	1	2	3

DAY OF SCAN INFORMATION QUESTIONNAIRE

SUBJECT #:		DATE:/
DATE OF BIRTH		/nonth year
AGE		_ years
HEIGHT		_ ft/inches
WEIGHT		_ lbs
SEX	☐ MALE	Females only: When was the start of your last menstrual period? Be as precise as possible. Date of period: or aboutdays ago.
RIGHT or LEFT-HANDED?		☐ RIGHT ☐ LEFT ☐ BOTH/NEITHER
Do you have any problems with r	eading?	□ NO □ YES

you have obtai	ned? Please choose one:
☐ 9th Grade	
☐ 10th Grade	
☐ 11th Grade	
☐ 12th Grade	
☐ High schoo	·
☐ GED or equ	
Some colle	
	legree: occupational, technical, or vocational program
	legree: academic program
	degree (e.g., BA, AB, BS, BBA)
	egree (e.g., MA, MS, MEng, MEd, MBA)
☐ Professiona	al school degree (e.g., MD, DDS, DVM, JD)
☐ Doctoral de	gree (e.g., PhD, EdD)
Unknown	
Are you curren	tly doing shift work (e.g., working early morning, evening, or night shifts)?
□ NO	☐ YES
Do vou engage	e in regular exercise?
□ NO	☐ YES
	Which sport?
	How many days per week?
	How many minutes per exercise session (on average)?

EDUCATION: What is the highest grade or level of school you have completed or the highest degree

CAFFEINE USE

Did you have any ca	affeine containing products today?
☐ NO☐ YES	How much?
On average, how ma	any cups (=8oz) of caffeinated coffee do you drink per day?
On average, how ma	any cups (=8oz) of caffeinated tea do you drink per day?
On average, how ma	any cans of caffeinated soda do you drink per day?
On average, how ma	any caffeinated sports drinks do you drink per day? (brand)
Do you use any other	er caffeinated products (e.g. Vivarin)?
□ NO□ YES	Brand?
	How much?
	How often?

NICOTINE AND OTHER SUBSTANCE USE Do you currently smoke cigarettes? How many? daily / weekly / monthly / yearly (circle one) _____ years _____ months For how long? Have you tried to quit? ☐ NO ☐ YES How many times? Have you ever smoked cigarettes in the past? | YES How many? daily / weekly / monthly / yearly (circle one) For how long? _____ years ____ months When did you quit? _____ (approximate date) Do you currently smoke large cigars? ☐ YES How many? _____ daily / weekly / monthly/ yearly (circle one) For how long? _____ months Have you tried to quit? □ NO ☐ YES How many times? _____ Have you ever smoked large cigars in the past? ☐ YES How many? _____ daily / weekly / monthly / yearly (circle one) _____ years _____ months For how long? When did you quit? (approximate date) Do you currently smoke small cigars? ☐ YES How many? daily / weekly / monthly/ yearly (circle one) _____ years ____ months For how long?

□NO

☐ YES

How many times?

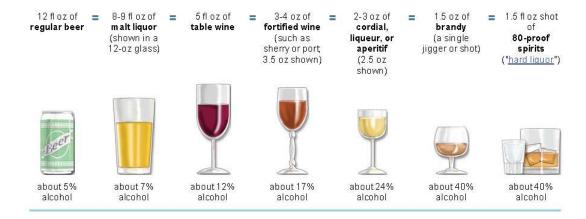
Have you tried to quit?

Have you eve	er smoked small cigars in the past?		
□ NO	☐ YES		
	How many?	_ daily / weekly / monthly /	yearly (<i>circle one</i>)
	For how long?	_ years	_ months
	When did you quit?		(approximate date)
Do you currer	ntly smoke cigarillos?		
□ NO	☐ YES		
	How many?	daily / weekly / monthly/	yearly (<i>circle one</i>)
	For how long?		
		YES	
	,		
	er smoked cigarillos in the past?		
□ NO	YES	1.9.7	
	How many?		
	For how long?		
	When did you quit?		(approximate date)
Do vou currer	ntly use smokeless tobacco, such as	dip or chew?	
NO	YES	•	
	About how much/ many?	daily / weekly / monthly	yearly (<i>circle one</i>)
	For how long?		
	Have you tried to quit?		
	, _		
		, , , , , , , , , , , , , , , , , , , ,	
Have you eve	er used smokeless tobacco in the past	t?	
□ NO	☐ YES		
	About how much/ many?	_ daily / weekly / monthly /	yearly (circle one)
	For how long?	_ years	_ months
	When did you quit?		
_			
<u> </u>	ntly use any other nicotine-containing	products?	
■ NO	YES		

	Which kind?			
	For how long?	yea	ars	_ months
	How often?			
	Have you tried to quit?	□ NO	☐ YES	
			How many times?	
	ever used any other kind of nic	cotine containin	g products?	
☐ NO	☐ YES			
	Which kind?			
	For how long?	yea	ars	_ months
	How often?			
	Have you tried to quit?	☐ NO	☐ YES	
			How many times?	
	rrently taking diet pills?			
☐ NO				
	What brand?			
	For how long?	years	months	days
	How much?			
	How often?	da	ily / weekly / monthly /	yearly (<i>circle one</i>)
Are you cu	rrently taking any medications	s, vitamins, or s	supplements?	
□ NO	☐ YES	,		
	Please list:			
	Name:		Dosage:	
Have you e	ever used marijuana?			
□ NO	☐ YES			
	At what age did you start?	?		
	On approximately how ma	any occasions l	nave you used marijua	ana?
	At what age did you quit?			

In the past	year, did you use marijuana?
☐ NO	☐ YES
	How often? daily / weekly / monthly / yearly (circle one)
Do you cur	rently use marijuana?
☐ NO	☐ YES
	How often? daily / weekly / monthly / yearly (circle one)
	Have you tried to quit?
	How many times?
Have you	ever used any other street drugs?
□ NO	☐ YES
	What?
	How much?
	How often?
In the past	year, did you use any other street drugs?
	How much?
	How often?
Do you cur	rently use any other street drugs?
□ NO	☐ YES
	What?
	How much?
	How often?
Do you drir	nk alcohol?
□ NO	☐ YES
	How many times per month?
	Using the below chart, what is the average number of drinks you consume on these
	occasions?

One drink equals:



SLEEP HABITS

How much s	sleep did you get last night?	-	HRS	
What time o	do you typically awaken on:			
Wee	ekdays (Mon-Fri)?	AM	PM (midnight = 12 AM; noon = 12	PM)
Wee	ekends (Sat-Sun)?	AM	PM	
How long do	oes it typically take you to fa	ll asleep at n	iight?	
Wee	ek nights (Sun-Thur)	MIN	HRS (midnight = 12 AM; noon = 1	2 PM)
Wee	ekends (Fri-Sat)	MIN	HRS	
At what time	e do you normally go to bed	at night on:		
Wee	ek nights (Sun-Thur)?	AM	PM (midnight = 12 AM; noon = 12	PM)
Wee	ekends (Fri-Sat)?	AM PM		
Did you eve	er experience sleep problems	s?		
□ NO	☐ YES, I have trouble	falling aslee	p.	
	How often?	times per W	EEK MONTH YEAR	
	☐ YES, I have trouble	staying asle	ер.	
	How often?	times per W	EEK MONTH YEAR	
At what time	e of day do you feel sleepies	it?	AM PM	
At what time	e of day do you feel most ale	ert?	AM PM	
How many I	hours do you need to sleep t	to feel your b	est?	
If you get le	ess than hours of sle	ep, you notic	ce impairment in your ability to function	on at work.
If you get m	nore than hours of sl	eep, you noti	ice impairment in your ability to func	ion at work
Do you take	e more than two daytime nap	s per month	?	
□ NO	☐ YES			
	How many times per wee	ek do you nap	p?	
	At what time? :	AM/PM t	to : AM/PM	

Do you consid	der yourself a light, normal, or	heavy sleeper?
LIGHT	☐ NORMAL	☐ HEAVY
Have you bee	n told or do you think that you	u snore excessively?
□ NO	YES	
Have you eve	r been diagnosed or treated f	or sleep apnea or sleep disordered breathing?
□ NO	☐ YES	
Is daytime sle	epiness currently a problem f	or you?
□ NO	☐ YES	•

Epworth Sleepiness Scale

How likely are you to doze off or fall asleep in the following situations, in contrast to feeling just tired? This refers to your **usual way of life in recent times**. Even if you have not done some of these things recently try to work out how they would have affected you. Use the following scale to choose the most appropriate number for each situation:

0 = would never doze

1 = slight chance of dozing

2 = moderate chance of dozing

3 = high chance of dozing

SITUATION	CHANCE OF DOZING				
Sitting and reading	0	1	2	3	
Watching TV	0	1	2	3	
Sitting, inactive in a public place (e.g. a theater or meeting)	0	1	2	3	
As a passenger in a car for an hour without a break	0	1	2	3	
Lying down to rest in the afternoon when circumstances permit	0	1	2	3	
Sitting and talking to someone	0	1	2	3	
Sitting quietly after a lunch without alcohol	0	1	2	3	
In a car, while stopped for a few minutes in the traffic	0	1	2	3	

Sessio	on (1 or 2)	ID#	D	ate	Time	AM PM
		PITTSBURGH	SLEEP QUALITY I	<u>NDEX</u>		
The f		t accurate reply for	l sleep habits during the <u>majority</u> of days			swers
1.	During the past m	nonth, what time hav	ve you usually gone	to bed at night?		
		BED T	IME			
2.	During the past m	onth, how long (in n	ninutes) has it usuall	y taken you to fall	asleep each	night?
	NUMBER OF MINUTES					
3.	B. During the past month, what time have you usually gotten up in the morning?					
		GETTING (JP TIME			
4.		nonth, how many hours yo	ours of <u>actual</u> <u>sleep</u> ou spent in bed.)	did you get at ni	ght? (This n	nay be
		HOURS OF SLEE	EP PER NIGHT			
For ea	nch of the remainin	ng questions, chec	k the one best resp	onse. Please ans	swer <u>all</u> ques	tions.
5.	During the past m	nonth, how often hav	ve you had trouble s	leeping because	you	
a)	Cannot get to sle	ep within 30 minute:	S			
		Less than once a week	Once or twice a week	Three or more times a week_		
b)	Wake up in the n	niddle of the night or	r early morning			
		Less than once a week		Three or more times a week_		
c)	Have to get up to	use the bathroom				
	Not during the past month		Once or twice a week	Three or more times a week_		

d) Cannot breathe comfortably					
	•	Less than once a week			
e)	Cough or snore lo	udly			
		Less than once a week			
f)	Feel too cold				
	Not during the past month	Less than once a week	Once or twice a week	Three or more times a week	
g)	Feel too hot				
	Not during the past month	Less than once a week	Once or twice a week	Three or more times a week	
h)	Had bad dreams				
	Not during the past month	Less than once a week	Once or twice a week	Three or more times a week	
i)	Have pain				
	Not during the past month	Less than once a week	Once or twice a week	Three or more times a week	
j)	Other reason(s), p	olease describe			
	How often during	the past month have y	you had trouble sle	eeping because of this?	
	Not during the past month	Less than once a week	Once or twice a week	Three or more times a week	
6.	During the past m	onth, how would you	rate your sleep qua	ality overall?	
		Very good			
		Fairly good			
		Fairly bad			
		Very bad			

7.	"over the counter"	5	e you taken medic	cine to neip you sleep (prescribed or
	Not during the past month	Less than once a week	Once or twice a week	Three or more times a week
8.		nonth, how often having in social activity?	e you had trouble	e staying awake while driving, eating
		Less than once a week		Three or more times a week
9.	During the past in enthusiasm to get		f a problem has	it been for you to keep up enough
	No probl	em at all		
	Only a ve	ery slight problem		
	Somewh	at of a problem		
	A very bi	ig problem		
10.	Do you have a be	d partner or room ma	ate?	
	No bed p	partner or room mate		
	Partner/r	room mate in other ro	oom	
	Partner i	n same room, but no	t same bed	
	Partner i	n same bed		
-	u have a room ma	te or bed partner, ask	k him/her how ofter	n in the past month you
a)	Loud snoring			
	Not during the past month	Less than once a week	Once or twice a week	Three or more times a week
b)	Long pauses betw	veen breaths while as	sleep	
		Less than once a week		
c)	Legs twitching or	jerking while you slee	эp	
	Not during the	Less than	Once or twice	

d)	Episodes of diso	rientation or confusion	on during sleep		
	Not during the past month	Less than once a week	Once or twice a week	Three or more times a week	
e)	Other restlessne	ss while you sleep; pl	ease describe		
	Not during the past month	Less than once a week	Once or twice a week	Three or more times a week	

Please rate each of the following items in terms of how characteristic they are of you. Use the following scale for answering these items.

1	2	3	4	5				
extrem unchar	ely acteristic				ktre nara		•	tic
of me				of	me)		
محمد المائم	24 4 4			- 1	_	^	4	

Once in a while I can't control the urge to strike another person. Given enough provocation, I may hit another person. If somebody hits me, I hit back. I get into fights a little more than the average person.	1 1 1	2 2 2	3 3	4	5
If somebody hits me, I hit back.	1			4	5
· · · · · · · · · · · · · · · · · · ·	-	2	2		
I get into fights a little more than the average person.	1		3	4	5
		2	3	4	5
If I have to resort to violence to protect my rights, I will.	1	2	3	4	5
There are people who pushed me so far that we came to blows.	1	2	3	4	5
I can think of no good reason for ever hitting a person.	1	2	3	4	5
I have threatened people I know.	1	2	3	4	5
I have become so mad that I have broken things.	1	2	3	4	5
I tell my friends openly when I disagree with them.	1	2	3	4	5
I often find myself disagreeing with people.	1	2	3	4	5
When people annoy me, I may tell them what I think of them.	1	2	3	4	5
I can't help getting into arguments when people disagree with me.	. 1	2	3	4	5
My friends say that I'm somewhat argumentative.	1	2	3	4	5
I flare up quickly but get over it quickly.	1	2	3	4	5
When frustrated, I let my irritation show.	1	2	3	4	5
I sometimes feel like a powder keg ready to explode.	1	2	3	4	5
I am an even-tempered person.	1	2	3	4	5
Some of my friends think I'm a hothead.	1	2	3	4	5
Sometimes I fly off the handle for no good reason.	1	2	3	4	5
I have trouble controlling my temper.	1	2	3	4	5
I am sometimes eaten up with jealousy.	1	2	3	4	5
At times I feel I have gotten a raw deal out of life.	1	2	3	4	5
Other people always seem to get the breaks.	1	2	3	4	5
I wonder why sometimes I feel so bitter about things.	1	2	3	4	5
I know that "friends" talk about me behind my back.	1	2	3	4	5
I am suspicious of overly friendly strangers.	1	2	3	4	5

Curriculum Vitae

Date Prepared: October 4, 2013

Name: WILLIAM DALE (SCOTT) KILLGORE

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McLean Hospital 115 Mill Street

Belmont, MA 02478 United States

Home Address:

Work Phone: (617) 855-3166

Work Email: killgore@mclean.harvard.edu

Work FAX: (617) 855-2770

Place of Birth:

Education

1985	A.A. (Liberal Arts), San Antonio College
1985	A.A.S (Radio-TV-Film), San Antonio College
1990	B.A. (Psychology), Summa cum laude with Distinction, University of New Mexico
1992	M.A. (Clinical Psychology), Texas Tech University
1996	PH.D. (Clinical Psychology), Texas Tech University

Postdoctoral Training

08/95-07/96	Predoctoral Fellow, Clinical Psychology, Yale School of Medicine
08/96-07/97	Postdoctoral Fellow, Clinical Neuropsychology, University of OK Health Sciences Center
08/97-07/99	Postdoctoral Fellow, Clinical Neuropsychology, University of Pennsylvania Medical School
07/99-09/00	Research Fellow, Neuroimaging, McLean Hospital/Harvard Medical School

Faculty Academic Appointments

10/00-08/02	Instructor in Psychology in the Department of Psychiatry
	Harvard Medical School, Boston, MA
09/02-07/07	Clinical Instructor in Psychology in the Department of Psychiatry
	Harvard Medical School, Boston, MA
08/07-10/10	Instructor in Psychology in the Department of Psychiatry
	Harvard Medical School, Boston, MA
04/08-	Faculty Affiliate, Division of Sleep Medicine
	Harvard Medical School, Boston, MA
10/10-10/12	Assistant Professor of Psychology in the Department of Psychiatry
	Harvard Medical School, Boston, MA

10/12- Associate Professor of Psychology in the Department of Psychiatry Harvard Medical School

Appointments at Hospitals/Affiliated Institutions

10/00-08/02	Assistant Research Psychologist, McLean Hospital, Belmont, MA
08/02-07/04	Research Psychologist, Department of Behavioral Biology, Walter Reed Army Institute of
	Research, Silver Spring, MD
09/02-04/05	Special Volunteer, National Institute on Deafness and Other Communication Disorders
	(NIDCD), National Institutes of Health (NIH), Bethesda, MD
09/02-07/07	Consultant in Psychology, McLean Hospital, Belmont, MA
08/07-	Research Psychologist, McLean Hospital, Belmont, MA

Other Professional Positions

08/02-07/05 Captain, Medical Service Corps, United States Army 08/05-10/07 Major, Medical Service Corps, United States Army 10/07-07/12 Major, Medical Service Corps, United States Army Reserve (USAR) 10/07-3/10 Chief Psychologist, GovSource, Inc., U.S. Department of Defense Government Contractor 08/08- Consulting Psychologist, The Brain Institute, University of Utah 10/12- Lieutenant Colonel, Medical Service Corps, United States Army Reserve (USAR)	11/01-08/02	First Lieutenant, Medical Service Corps, United States Army Reserve (USAR)
10/07-07/12 Major, Medical Service Corps, United States Army Reserve (USAR) 10/07-3/10 Chief Psychologist, GovSource, Inc., U.S. Department of Defense Government Contractor 08/08- Consulting Psychologist, The Brain Institute, University of Utah	08/02-07/05	Captain, Medical Service Corps, United States Army
10/07-3/10 Chief Psychologist, GovSource, Inc., U.S. Department of Defense Government Contractor Consulting Psychologist, The Brain Institute, University of Utah	08/05-10/07	Major, Medical Service Corps, United States Army
08/08- Consulting Psychologist, The Brain Institute, University of Utah	10/07-07/12	Major, Medical Service Corps, United States Army Reserve (USAR)
	10/07-3/10	Chief Psychologist, GovSource, Inc., U.S. Department of Defense Government Contractor
07/12- Lieutenant Colonel, Medical Service Corps, United States Army Reserve (USAR)	08/08-	Consulting Psychologist, The Brain Institute, University of Utah
	07/12-	Lieutenant Colonel, Medical Service Corps, United States Army Reserve (USAR)

Major Administrative Leadership Positions

Local 1988-1989	Undergraduate Teaching Assistant-Introduction to Psychology 102, University of New Mexico
1990-1991	Graduate Teaching Assistant-General Psychology 1300, Texas Tech University
1991-1992	Graduate Teaching Assistant-Psychology of Learning Laboratory 3317, Texas Tech University
2004-2007	Chief, Neurocognitive Performance Branch, Walter Reed Army Institute of Research, Silver Spring, MD
2005-2006	Neuropsychology Postdoctoral Program Training Supervisor, Walter Reed Hospital, Washington, DC
2011-	Co-Director, Social, Cognitive, and Affective Neuroscience Laboratory, McLean Hospital, Belmont, MA

Committee Service

Local	
2003	Scientific Review Committee, Walter Reed Army Institute of Research (WRAIR), Silver
	Spring, MD

Scientific Review Committee, Walter Reed Army Institute of Research (WRAIR), Silver

Spring, MD

Regional

2005-2006 Undergraduate Honors Thesis Committee, Jessica Richards [Chairperson], University of

Maryland, Baltimore County

2011 Scientific Review Committee, U.S. Army Institute of Environmental Medicine

(USARIEM), Natick, MA

National

2011- National Network of Depression Centers, Military Task Group

International

2005-2006 Doctoral Thesis Committee, Belinda J. Liddell, University of Sydney, Australia

Professional Societies

1995-1997	American Psychological Association, Member
1998-2000	National Academy of Neuropsychology, Member
2012-	American Academy of Sleep Medicine, Member

Grant Review Activities

National	
2004	University of Alabama, Clinical Nutrition Research Center (UAB CNRC) Pilot/Feasibility
	Study Program Review Committee
2006	U.S. Small Business Administration, Small Business Technology Transfer (STTR)
	Program Review Committee
2006	Cognitive Performance Assessment Program Area Steering Committee, U.S. Army
	Military Operational Medicine Research Program Funding Panel
2007	Cognitive Performance Assessment Program Area Steering Committee, U.S. Army
	Military Operational Medicine Research Program Funding Panel
2008	United States Army Medical Research and Materiel Command (USAMRMC)
	Congressionally Directed Medical Research Programs (CDMRP) Extramural Grant Review
	Panel
2009	NIH-CSR Brain Disorders and Clinical Neuroscience N02 Member Study Conflict Section
	Review Panel
2009	Sleep Physiology and Fatigue Interventions Program Area Steering Committee, U.S. Army
	Military Operational Medicine Research Program
2011	National Science Foundation (NSF) Grant Reviewer
2012	National Science Foundation (NSF) Grant Reviewer

International

2009	Scotland, UK, Biomedical and Therapeutic Research Committee, Grant Reviewer
2010	Canada, Social Sciences and Humanities Research Council of Canada, Grant Reviewer
2011	Israel, Israel Science Foundation (ISF), Grant Reviewer
2013	Israel, Israel Science Foundation (ISF), Grant Reviewer

Editorial Activities

2001-2012	Reviewer, Psychological Reports
2001-2012	Reviewer, Perceptual and Motor Skills
2002	Reviewer, American Journal of Psychiatry
2002-2013	Reviewer, Biological Psychiatry
2003	Reviewer, Clinical Neurology and Neurosurgery
2004, 2013	Reviewer, NeuroImage
2004-2006	Reviewer, Neuropsychologia
2004	Reviewer, Journal of Neuroscience
2004	Reviewer, Consciousness and Cognition
2005	Reviewer, Experimental Brain Research
2005	Reviewer, Schizophrenia Research
2005-2012	Reviewer, Archives of General Psychiatry
2005	Reviewer, Behavioral Brain Research
2005-2009	Reviewer, Human Brain Mapping
2005-2006	Reviewer, Psychiatry Research: Neuroimaging
2006	Reviewer, Journal of Abnormal Psychology
2006	Reviewer, Psychopharmacology
2006	Reviewer, Developmental Science
2006	Reviewer, Acta Psychologica
2006	Reviewer, Neuroscience Letters
2006-2013	Reviewer, Journal of Sleep Research
2006-2013	Reviewer, Physiology and Behavior
2006-2011	Reviewer, SLEEP
2007	Reviewer, Journal of Clinical and Experimental Neuropsychology
2008	Reviewer, European Journal of Child and Adolescent Psychiatry
2008	Reviewer, Judgment and Decision Making
2008-2010	Reviewer, Aviation, Space, & Environmental Medicine
2008	Reviewer, Journal of Psychophysiology
2008	Reviewer, Brazilian Journal of Medical and Biological Research
2008	Reviewer, The Harvard Undergraduate Research Journal
2008	Reviewer, Bipolar Disorders
2008-2013	Reviewer, Chronobiology International
2008	Reviewer, International Journal of Obesity
2009	Reviewer, European Journal of Neuroscience
2009-2013	Reviewer, International Journal of Eating Disorders
2009	Reviewer, Psychophysiology
2009	Reviewer, Traumatology
2009	Reviewer, Clinical Medicine: Therapeutics
2009	Reviewer, Acta Pharmacologica Sinica
2009	Reviewer, Collegium Antropologicum
2009	Reviewer, Journal of Psychopharmacology
2009-2010	Reviewer, Obesity
2009	Reviewer, Scientific Research and Essays
2009	Reviewer, Child Development Perspectives
2009-2010	Reviewer, Personality and Individual Differences
2009-2010	Reviewer, Noise and Health
2009-2010	Reviewer, Sleep Medicine

Reviewer, Nature and Science of Sleep
Reviewer, Psychiatry and Clinical Neurosciences
Reviewer, Learning and Individual Differences
Reviewer, Cognitive, Affective, and Behavioral Neuroscience
Reviewer, BMC Medical Research Methodology
Reviewer, Journal of Adolescence
Reviewer, Brain Research
Reviewer, Brain
Reviewer, Social Cognitive and Affective Neuroscience
Reviewer, Journal of Traumatic Stress
Reviewer, Social Neuroscience
Reviewer, Brain and Cognition
Reviewer, Frontiers in Neuroscience
Reviewer, Sleep Medicine Reviews
Reviewer, Journal of Experimental Psychology: General
Reviewer, Ergonomics
Reviewer, Behavioral Sleep Medicine
Reviewer, Neuropsychology
Reviewer, Emotion
Reviewer, JAMA
Reviewer, BMC Neuroscience
Reviewer, Cognition and Emotion
Reviewer, Journal of Behavioral Decision Making
Reviewer, Psychosomatic Medicine
Reviewer, PLoS One
Reviewer, American Journal of Critical Care
Reviewer, Experimental Psychology
Reviewer, Clinical Interventions in Aging
Reviewer, Frontiers in Psychology
Reviewer, Brain Structure and Function
Reviewer, Appetite
Reviewer, JAMA Psychiatry

Other Editorial Roles

2009-	Editorial Board Member	International Journal of Eating Disorders
2012-	Editor	Datasets in Neuroscience
2012-	Editor	Datasets in Medicine
2012-	Editor	Journal of Sleep Disorders: Treatment and
		Care

Honors and Prizes

1990	Outstanding Senior Honors Thesis in Psychology, University of New Mexico
1990-1995	Maxey Scholarship in Psychology, Texas Tech University
2001	Rennick Research Award, Co-Authored Paper, International Neuropsychological Society
2002	Honor Graduate, AMEDD Officer Basic Course, U.S. Army Medical Department Center
	and School

2002	Lynch Leadership Award Nominee, AMEDD Officer Basic Course, U.S. Army Medical
	Department Center and School
2003	Outstanding Research Presentation Award, 2003 Force Health Protection Conference, U.S.
	Army Center for Health Promotion and Preventive Medicine
2005	Edward L. Buescher Award for Excellence in Research by a Young Scientist, Walter Reed
	Army Institute of Research (WRAIR) Association
2009	Merit Poster Award, International Neuropsychological Society
2009	Outstanding Research Presentation Award, 2009 Force Health Protection Conference, U.S.
	Army Center for Health Promotion and Preventive Medicine
2010	Best Paper Award, Neuroscience, 27 th U.S. Army Science Conference
2011	Published paper included in Best of Sleep Medicine 2011
2011	Blue Ribbon Finalist, 2011 Top Poster Award in Clinical and Translational Research,
	Society of Biological Psychiatry
2012	Defense Advance Research Projects Agency (DARPA) Young Faculty Award in
	Neuroscience

Report of Funded and Unfunded Projects

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Funding Information		
Past		
2001-2003	fMRI of Unconscious Affect Processing in Adolescence. N.I.H., 1R03HD41542-01 P.I.: Killgore	
2003-2006	The Effects of Sleep-Loss and Stimulant Countermeasures on Judgment and Decision Making. U.S. Army Medical Research and Materiel Command (USAMRMC) Competitive Medical Research Proposal Program (CMRP), P.I.: Killgore	
2004-2005	Sleep/wake Schedules in 3ID Aviation Brigade Soldiers. Defense Advanced Research Projects Agency (DARPA) P.I.: Killgore	
2005-2006	Functional Neuroimaging Studies of Neural Processing Changes with Sleep and Sleep Deprivation. U.S. Army Medical Research and Materiel Command (USAMRMC) Task Area C (Warfighter Judgment and Decision Making) Program Funding P.I.: Killgore	
2006-2007	Establishing Normative Data Sets for a Series of Tasks to Measure the Cognitive Effects of Operationally Relevant Stressors. U.S. Army Medical Research and Materiel Command (USAMRMC) Task Area C (Warfighter Judgment and Decision Making) Program Funding, P.I.: Killgore	

2006-2007 Military Operational Medicine Research Program (MOM-RP), Development of the Sleep History and Readiness Predictor (SHARP).

U.S. Army Medical Research and Materiel Command (USAMRMC)

P.I.: Killgore

Current

2009-2012 The Neurobiological Basis and Potential Modification of Emotional Intelligence through Affective Behavioral Training.

U.S. Army Medical Research and Materiel Command (USAMRMC),

P.I.: Killgore

Major Goal: To identify the neurobiological basis of cognitive and emotional intelligence using functional and structural magnetic resonance imaging.

2011-2014 Effects of Bright Light Therapy on Sleep, Cognition, and Brain Function following Mild Traumatic Brain Injury.

U.S. Army Medical Research and Materiel Command (USAMRMC),

P.I.: Killgore

Major Goal: To evaluate the effectiveness of morning exposure to bright light as a treatment for improving in sleep patterns among individuals with post-concussive syndrome. Effects of improved sleep on recovery due to this treatment will be evaluated using neurocognitive testing as well as functional and structural neuroimaging.

2012-2015 Internet Based Cognitive Behavioral Therapy Effects on Depressive Cognitions and Brain function.

U.S. Army Medical Research and Materiel Command (USAMRMC),

Co-PI: Killgore

Major Goal: To evaluate the effectiveness of an internet-based cognitive behavioral therapy treatment program on improving depressive symptoms, coping and resilience skills, cognitive processing and functional brain activation patterns within the prefrontal cortex.

2012-2014 Defense Advance Research Projects Agency (DARPA) Young Faculty Award in Neuroscience: Multimodal Neuroimaging to Predict Cognitive Resilience Against Sleep Loss P.I.: Killgore

Major Goal: To combine several neuroimaging techniques, including functional and structural magnetic resonance imaging, diffusion tensor imaging, and magnetic resonance spectroscopy to predict individual resilience to 24 hours of sleep deprivation.

2012-2016 Congressionally Directed Medical Research Program (CDMRP), Psychological Health/Traumatic Brain Injury (PH/TBI) Research Program: Applied Neurotrauma Research Award: A Model for Predicting Cognitive and Emotional Health from Structural and Functional Neurocircuitry following Traumatic Brain Injury.

DoD CDMRP

P.I.: Killgore

Major Goal: To evaluate the relation between axonal damage and neurocognitive performance in patients with traumatic brain injury at multiple points over the recovery trajectory, in order to predict recovery.

2012-2014 Neural Mechanisms of Fear Extinction Across Anxiety Disorders NIH NIMH

Site Subcontract PI: Killgore

Major Goal: To examine the neurocircuitry involved in fear conditioning, extinction, and extinction recall across several major anxiety disorders.

Report of Local Teaching and Training

Laboratory and Other Research Supervisory and Training Responsibilities

- 2005-2006 1 Fellow for 250 hrs/year, Neuropsychology Postdoctoral Research Training Program Supervisor, Walter Reed Hospital
- 2011- 2 Fellows for 2080 hrs/year, Harvard Research Fellow Supervisor, McLean Hospital

Formally Supervised Trainees

- 1997-1999 David Glahn, Ph.D. Associate Professor, Yale University School of Medicine Provided mentorship in clinical neuropsychological assessment and research at the University of Pennsylvania Hospital, which resulted in the development of a new psychometric test, 1 co-authored published conference abstract, and 1 co-authored published journal article.
- 1997-1999 Daniel Casasanto, Ph.D. Senior Scientist/Lecturer, Max Plank Institute for Psycholinguistics

Supervised this trainee while at the University of Pennsylvania Hospital, which resulted in the development of a new psychometric test, 9 co-authored published conference abstracts, and 5 co-authored published journal articles.

2002-2005 Alexander Vo, Ph.D. Associate Professor, UTMB; Vice President, Electronically Mediated Services, Colorado Access

Served as one of his research mentors at the Walter Reed Army Institute of Research, which resulted in 3 co-authored published conference abstracts, and 3 co-authored published journal articles.

- 2002-2007 Rebecca Reichardt, M.A. Human Subjects Protection Scientist, USAMRMC Supervised her research training in my lab at the Walter Reed Army Institute of Research, which resulted in 10 co-authored published conference abstracts, and 2 co-authored published journal articles.
- 2003-2004 Stan Liu, M.D. Medical Intern, Johns Hopkins Medical School Supervised his research training in my lab at the Walter Reed Army Institute of Research, which primarily involved training in neuropsychological assessment and sleep research methods.
- Neil Arora, B.A. Student, Yale University
 Supervised his research project in my lab at the Walter Reed Army Institute of Research
 and NIH, which primarily involved training in brain imaging analysis and led to 2 coauthored published conference abstracts.
- 2003-2005 Nancy Grugle, Ph.D. Assistant Professor, Cleveland State University
 Supervised her Doctoral Dissertation research project in my lab at the Walter Reed Army
 Institute of Research, which resulted in 23 co-authored published conference abstracts, and
 10 co-authored published journal articles.
- 2003-2005 Joshua Bailey, B.A. Seminary Student
 Supervised his computer programing development and research in my lab at the Walter

- Reed Army Institute of Research, which resulted in 1 co-authored published conference abstract, and 1 co-authored computer analysis package submitted for U.S. patent.
- 2003-2006 Athena Kendall, M.A. Lab Manager, Walter Reed Army Medical Center Supervised part of her masters degree research project and other research work in my lab at the Walter Reed Army Institute of Research, which resulted in 4 co-authored published conference abstracts, and 4 co-authored published journal articles.
- 2003-2006 Lisa Day, M.S.W. Clinical Social Worker, Washington D.C. Supervised her research training and work in my lab at the Walter Reed Army Institute of Research, which resulted in 3 co-authored published conference abstracts, and 1 co-authored published journal article.
- 2004-2005 Merica Shepherd, B.A. Laboratory Coordinator

 Supervised her research training in my lab at the Walter Reed Army Institute of Research,
 which primarily involved training in neuropsychological assessment and sleep research
 methods.
- 2004-2005 Cynthia Hawes, B.A. Research Program Coordinator
 Supervised her research training in my lab at the Walter Reed Army Institute of Research,
 which primarily involved training in neuropsychological assessment and sleep research
 methods.
- 2004-2006 Christopher Li, B.A. Graduate Student
 Supervised his research training and work in my lab at the Walter Reed Army Institute of
 Research, which resulted in 3 co-authored published conference abstracts, and 1 coauthored published journal article.
- 2004-2007 Jessica Richards, M.S. Ph.D. Student, University of Maryland College Park Served as Chair of her Senior Honors Thesis Committee and supervised her research work in my lab at the Walter Reed Army Institute of Research, which resulted in 8 co-authored published conference abstracts, a senior honors thesis, and 2 co-authored published journal articles.
- 2004-2007 Erica Lipizzi, M.A. Graduate Student, Emory University
 Supervised her research training and work in my lab at the Walter Reed Army Institute of
 Research, which resulted in 16 co-authored published conference abstracts, and 12 coauthored published journal articles.
- 2004-2007 Brian Leavitt, B.S. Research Technician, Walter Reed Army Institute of Research

Supervised his research training and work in my lab at the Walter Reed Army Institute of Research, which resulted in 4 co-authored published conference abstracts, and 1 co-authored published journal article.

- 2004-2007 Rachel Newman, M.S. Senior Laboratory Manager, Walter Reed Supervised her research training and work in my lab at the Walter Reed Army Institute of Research, which resulted in 6 co-authored published conference abstracts, and 1 co-authored published journal article.
- 2004-2007 Alexandra Krugler, B.S. Medical Student, Louisiana State University Supervised her research training and work in my lab at the Walter Reed Army Institute of Research, which resulted in 5 co-authored published conference abstracts, and 1 co-authored published journal article.
- 2005 Amy Conrad, PH.D. Clinical Psychologist, Washington D.C. Supervised her research training and work in my lab at the Walter Reed Army Institute of Research, which resulted in 4 co-authored published conference abstracts, and 1 co-authored published journal article.

2005-2006	Nathan Huck, PH.D.	Clinical Neuropsychologist, Walter Reed Army Institute of Research
	Served as his post-doctoral r	esearch training supervisor at the Walter Reed Army Institute
	of Research, which resulted i	in 1 co-authored published conference abstract and 1 co-
	authored published journal a	rticle.
2005-2006	1 0	Post-Doctoral Fellow, Boston VA
	Supervised her research train	ning and work in my lab at the Walter Reed Army Institute of
		7 co-authored published conference abstracts and 5 co-
	authored published journal a	± y
2005-2006	Alison Muckle, B.A.	Research Technician
	•	ning and work in my lab at the Walter Reed Army Institute of
		l co-authored published conference abstract and 1 co-
	authored published journal a	
2005-2006	Christina Murray, B.S.	Medical Student, Drexel University
	•	ning and work in my lab at the Walter Reed Army Institute of
	*	2 co-authored published conference abstracts.
2005-2007	Gautham Ganesan, M.D.	Medical Student, UC Irvine
	Supervised his research train	ning and work in my lab at the Walter Reed Army Institute of
	Research, which resulted in	l co-authored published conference abstract and 1 co-
	authored published journal a	ırticle.
2005-2007	Dante Picchioni, Ph.D.	Research Psychologist, Walter Reed Army Institute of Research
	Supervised part of his post-d	octoral brain imaging research training at the Walter Reed
	Army Institute of Research, v	which resulted in 1 co-authored published conference abstract
	and 1 co-authored published	
2006-2007	Tracy Rupp, Ph.D.	Research Psychologist, Walter Reed Army Institute of Research
		loctoral sleep research training at the Walter Reed Army
	Institute of Research, which	resulted in 17 co-authored conference abstracts and 2 co-
	authored published journal a	articles.
2006-2007	Kacie Smith, B.A.	Study Manager, Walter Reed Army Institute of Research
	Supervised her research train	ning and work in my lab at the Walter Reed Army Institute of
	Research, which resulted in	7 co-authored published conference abstracts.
2006-2007	Shane Smith, B.S.	Medical Student, University of the West Indies
	Served as his research mento	or at the Walter Reed Army Institute of Research, which
	primarily involved training in	n neuropsychological assessment and sleep research methods.
2006-2007	Shanelle McNair	Research Technician, Walter Reed Army Institute of Research
	Supervised her research train	ning and work in my lab at the Walter Reed Army Institute of
	Research, which resulted in	l co-authored published article.
2006-2007	George Watlington	Research Technician, Walter Reed Army Institute of Research
	Supervised his research train	ning and work in my lab at the Walter Reed Army Institute of
	-	l co-authored published article.
2008	Grady O'Brien	Undergraduate Student
	•	eer research mentor at McLean Hospital, which resulted in 1
	oral research presentation	-
2008-2009	Alex Post	Undergraduate Student, Carnegie Mellon University

- Served as his summer volunteer research mentor at McLean Hospital, which resulted in 2 oral research presentations and 1 co-authored published abstract.
- 2008-2009 Lauren Price, B.A. Senior Clinical Research Assistant, McLean Hospital Supervised her research training and work in my lab at the McLean Hospital, which resulted in 11 co-authored published conference abstracts and 4 co-authored published articles.
- 2009-2013 Zachary Schwab, B.S. Medical Student, University of Kansas Supervised his research training and work in my lab at the McLean Hospital, which resulted in 52 co-authored published conference abstracts and 4 co-authored published articles.
- 2009-2011 Melissa Weiner, B.S. Graduate Student, Yale School of Public Health Supervised her research training and work in my lab at the McLean Hospital, which resulted in 32 co-authored published conference abstracts and 2 co-authored published articles.
- 2010-2011 Norah Simpson, Ph.D. Post-Doctoral Fellow, Beth Israel Deaconess/Harvard Medical School

 Served as a research mentor on her federal K-Award grant application.
- 2010-2012 Vincent Capaldi, M.D. Medical Resident, Walter Reed Army Medical Ctr. Served as his post-doctoral research mentor, which resulted in 1 co-authored published conference abstract and 2 co-authored published articles.
- 2010-2011 Christina Song Undergraduate Student, Smith College Served as her summer volunteer research mentor at McLean Hospital, which resulted in 1 co-authored published abstract.
- 2011 Jill Kizielewicz Undergraduate Student, Hamilton College

 Served as her summer volunteer research mentor at McLean Hospital, which resulted in 1 co-authored published abstract.
- 2011-2013 Sophie DelDonno, B.A. Doctoral Student, University of Illinois, Chicago Supervised her research training and work in my lab at the McLean Hospital, which resulted in 14 co-authored published conference abstracts and 2 co-authored published articles.
- 2011- Maia Kipman, B.A. Research Assistant, McLean Hospital Supervised her research training and work in my lab at the McLean Hospital, which resulted in 14 co-authored published conference abstracts and 2 co-authored published articles.
- 2011 Michael Covell, B.A. Graduate Student, Baruch College Served as one of his research mentors at McLean Hospital, which resulted in 3 co-authored published conference abstracts.
- 2011- Mareen Weber, Ph.D. Instructor, Harvard Medical School Supervised her post-doctoral research training and work in my lab at the McLean Hospital, which has resulted in 9 co-authored published conference abstracts, 1 travel award, 2 co-authored published articles, five federal grant submissions, and 2 successfully funded grants.
- Julia Cohen, Ph.D. Post-Doctoral Fellow, Harvard Medical School Served as one of her research mentors at McLean Hospital, which resulted in 2 co-authored published conference abstracts.
- 2012- Christian Webb, Ph.D. Post-Doctoral Fellow, Harvard Medical School Currently supervising his post-doctoral research training and work in my lab at the McLean Hospital.

2012-	Hannah Gogel, B.S. Research Assistant, McLean Hospital Supervised her research training and work in my lab at the McLean Hospital,
2012-	Olga Tkachenko, A.B. Research Assistant, McLean Hospital
	Supervised her research training and work in my lab at the McLean Hospital,
2012-	Lilly Preer, B.A. Research Assistant, McLean Hospital
2012-2013	Supervised her research training and work in my lab at the McLean Hospital, Elizabeth Mundy, Ph.D Postdoctoral Fellow, Harvard Medical School
2012 2013	Supervised her post-doctoral research training and work in my lab at the McLean Hospital
2013-	Elizabeth Olson, Ph.D Postdoctoral Fellow, Harvard Medical School
	Supervised her post-doctoral research training and work in my lab at the McLean Hospital,
2013-	Shreya Divatia, B.S. Research Assistant, McLean Hospital
2013-	Supervised her research training and work in my lab at the McLean Hospital Lauren Demers, B.A. Research Assistant, Harvard Medical School
2013-	Supervised her research training and work in my lab at the McLean Hospital
2013-	Jiaolong Cui, Ph.D Postdoctoral Fellow, Harvard Medical School
	Supervised his post-doctoral research training and work in my lab at the McLean Hospital,
Local Invite	ed Presentations
2000	The Neurobiology of Emotion in Children, McLean Hospital
	Lecturer: 30 participants, 2 hours contact time per year, 10 hours prep time per year.
	[Invited Lecture]
2001	The Neurobiology of Emotion in Children and Adolescents, McLean Hospital
	Lecturer: 60 participants, 2 hours contact time per year, 10 hours prep time per year.
	[Invited Lecture]
2001	Haira Franchismal MDI to Charles the December in a During Lader Delega Children's Courter
2001	Using Functional MRI to Study the Developing Brain, Judge Baker Children's Center Lecturer: 8 participants, 2 hours contact time per year, 10 hours prep time per year [Invited]
	Seminar]
2005	Briefing to the Chairman of the Congressional Committee on Strategies to Protect the
	Health of Deployed U.S. Forces, John H. Moxley, on the Optimization of Judgment and
	Decision Making Capacities in Soldiers Following Sleep Deprivation, Walter Reed Army Institute of Research, Washington, DC/ <i>Invited Lecture</i>]
	institute of Research, washington, Definitien Lectures
2005	Lecture on Functional Neuroimaging, Cognitive Assessment, and the Enhancement of
	Soldier Performance, Walter Reed Army Institute of Research, Washington, DC [Invited
	Lecture]
2006	Lecture on Optimization of Judgment and Decision Making Capacities in Soldiers
2000	Following Sleep Deprivation, Brain Imaging Center, McLean Hospital, Belmont MA
	[Invited Lecture]
2006	Briefing to the Chairman of the Cognitive Performance Assessment Program Area
	Steering Committee, U.S. Army Military Operational Medicine Research Program, entitled Optimization of Judgment and Decision Making Capacities in Soldiers
	Following Sleep Deprivation, Walter Reed Army Institute of Research [Invited Lecture]

2010	Lecture on Patterns of Cortico-Limbic Activation Across Anxiety Disorders, Center for Anxiety, Depression, and Stress, McLean Hospital, Belmont, MA [Invited Lecture]
2010	Lecture on Cortico-Limbic Activation Among Anxiety Disorders, Neuroimaging Center, McLean Hospital, Belmont, MA [Invited Lecture]
2011	Lecture on Shared and Differential Patterns of Cortico-Limbic Activation Across Anxiety Disorders, McLean Research Day Brief Communications, McLean Hospital, Belmont, MA [Invited Lecture]
2012	Briefing to GEN (Ret) George Casey Jr., former Chief of Staff of the U.S. Army, entitled Research for the Soldier. McLean Hospital, Belmont, MA. [Invited Lecture]

Report of Regional, National and International Invited Teaching and Presentations

Invited Presentations and Courses

Regional	
2002	Cortico-Limbic Activation in Adolescence and Adulthood, Youth Advocacy Project, Cape Cod, MA Lecturer: 45 participants, 2 hours contact time per year, 10 hours prep time per year [Invited Lecture]
2006	Lecture on Norming a Battery of Tasks to Measure the Cognitive Effects of Operationally Relevant Stressors, Cognitive Performance Assessment Program Area Steering Committee, U.S. Army Military Operational Medicine Research Program, Washington, DC[Invited Lecture]
2007	Lecture on Cerebral Responses During Visual Processing of Food, U.S. Army Institute of Environmental Medicine, Natick, MA[Invited Lecture]
2007	Briefing on the Measurement of Sleep-Wake Cycles and Cognitive Performance in Combat Aviators, U.S. Department of Defense, Defense Advanced Research Projects Agency (DARPA), Washington, DC
2008	Lecture on Sleep Deprivation, Executive Function, and Resilience to Sleep Loss; 105 th IMA Detachment, U.S. Army Reserve Center, Boston, MA <i>[Invited Lecture]</i>
2008	Lecture on the Role of Research Psychology in the Army; 105 th IMA Detachment, U.S. Army Reserve Center, Boston, MA <i>[Invited Lecture]</i>
2008	Lecture on Combat Stress Control: Basic Battlemind Training; 105 th IMA Detachment, U.S. Army Reserve Center, Boston, MA[Invited Lecture]
2009	Lecture entitled Evaluate a Casualty, Prevent Shock, and Prevent Cold Weather injuries;

	105 th IMA Detachment, U.S. Army Reserve Center, Boston, MA[Invited Lecture]
2009	Lecture on Combat Exposure and Sleep Deprivation Effects on Risky Decision-Making; 105 th IMA Detachment, U.S. Army Reserve Center, Boston, MA [Invited Lecture]
2009	Lecture on the Sleep History and Readiness Predictor (SHARP); 105 th IMA Detachment, U.S. Army Reserve Center, Boston, MA [Invited Lecture]
2009	Lecture on The Use of Actigraphy for Measuring Sleep in Combat and Military Training; 105 th IMA Detachment, U.S. Army Reserve Center, Boston, MA [Invited Lecture]
2010	Lecture entitled Casualty Evaluation; 105 th IMA Detachment, U.S. Army Reserve Center, Boston, MA [Invited Lecture]
2010	Lecture entitled Combat Stress and Risk-Taking Behavior Following Deployment; 105 th IMA Detachment, U.S. Army Reserve Center, Boston, MA [Invited Lecture]
2010	Lecture entitled Historical Perspectives on Combat Medicine at the Battle of Gettysburg; 105 th IMA Detachment, U.S. Army Reserve Center, Boston, MA [Invited Lecture]
2010	Lecture entitled Sleep Loss, Stimulants, and Decision-Making; 105 th IMA Detachment, U.S. Army Reserve Center, Boston, MA <i>[Invited Lecture]</i>
2010	Lecture entitled PTSD: New Insights from Brain Imaging; 105 th IMA Detachment, U.S. Army Reserve Center, Boston, MA [Invited Lecture]
2011	Lecture entitled Effects of bright light therapy on sleep, cognition and brain function after mild traumatic brain injury; 105 th IMA Detachment, U.S. Army Reserve Center, Boston, MA [Invited Lecture]
2011	Lecture entitled Laboratory Sciences and Research Psychology in the Army; 105 th IMA Detachment, U.S. Army Reserve Center, Boston, MA [Invited Lecture]
2011	Lecture entitled Tools for Assessing Sleep in Military Settings; 105 th IMA Detachment, U.S. Army Reserve Center, Boston, MA <i>[Invited Lecture]</i>
2011	Lecture entitled The Brain Basis of Emotional Trauma and Practical Issues in Supporting Victims of Trauma, U.S. Department of Justice, United States Attorneys Office, Serving Victims of Crime Training Program, Holyoke, MA [Invited Lecture]
2011	Lecture entitled The Brain Altering Effects of Traumatic Experiences; 105 th Reinforcement Training Unit (RTU), U.S. Army Reserve Center, Boston, MA [Invited Lecture]
2012	Lecture entitled Sleep Loss, Caffeine, and Military Performance; 105 th IMA Detachment, U.S. Army Reserve Center, Boston, MA <i>[Invited Lecture]</i>
2012	Lecture entitled Using Light Therapy to Treat Sleep Disturbance Following Concussion; 14

	105 th IMA Detachment, U.S. Army Reserve Center, Boston, MA [Invited Lecture]
2013	Lecture entitled Brain Responses to Food: What you See Could Make you Fat; 105 th IMA Detachment, U.S. Army Reserve Center, Boston, MA [Invited Lecture]
National	
2000	Lecture on the Neurobiology of Emotional Development in Children, 9th Annual Parents as Teachers Born to Learn Conference, St. Louis, MO [Invited Lecture]
2002	Lecture on the Changes in the Lateralized Structure and Function of the Brain during Adolescent Development, Walter Reed Army Institute of Research, Washington, DC[Invited Lecture]
2004	Lecture on Sleep Deprivation, Cognition, and Stimulant Countermeasures: Seminar Presented at the Bi-Annual 71F Research Psychology Short Course, Ft. Detrick, MD, U.S. Army Medical Research and Materiel Command [Invited Lecture]
2004	Lecture on the Regional Cerebral Blood Flow Correlates of Electroencephalographic Activity During Stage 2 and Slow Wave Sleep: An H215O PET Study: Presented at the Bi-Annual 71F Research Psychology Short Course, Ft. Detrick, MD, U.S. Army Medical Research and Materiel Command[Invited Lecture]
2004	Oral Platform Presentation: Regional cerebral metabolic correlates of electroencephalographic activity during stage-2 and slow-wave sleep: An H215O PET Study, 18th Associated Professional Sleep Societies Annual Meeting, Philadelphia, PA.
2005	Lecture on The Sleep History and Readiness Predictor: Presented to the Medical Research and Materiel Command, Ft. Detrick, MD, [Invited Lecture]
2006	Lecture on The Sleep History and Readiness Predictor: Presented at the Bi-Annual 71F Research Psychology Short Course, Ft. Rucker, AL, U.S. Army Medical Research and Materiel Command[Invited Lecture]
2007	Lecture on the Effects of Fatigue and Pharmacological Countermeasures on Judgment and Decision-Making, U.S. Army Aeromedical Research Laboratory, Fort Rucker, AL [Invited Lecture]
2008	Lecture on the Validation of Actigraphy and the SHARP as Methods of Measuring Sleep and Performance in Soldiers, U.S. Army Aeromedical Research Laboratory, Fort Rucker, AL[Seminar]
2009	Lecture on Sleep Deprivation, Executive Function, and Resilience to Sleep Loss: Walter Reed Army Institute of Research AIBS Review, Washington DC[Invited Lecture]
2009	Lecture Entitled: Influences of Combat Exposure and Sleep Deprivation on Risky Decision-Making, Evans U.S. Army Hospital, Fort Carson, CO[Invited Lecture]

Lecture on Making Bad Choices: The Effects of Combat Exposure and Sleep 2009 Deprivation on Risky Decision-Making, 4th Army, Division West, Quarterly Safety Briefing to the Commanding General and Staff, Fort Carson, CO/Invited Lecture 1 Symposium on Sleep Deprivation, Judgment, and Decision-Making, 23rd Annual 2009 Meeting of the Associated Professional Sleep Societies, Seattle, WA/Invited Lecture] 2009 Symposium Session Moderator: Workshop on Components of Cognition and Fatigue: From Laboratory Experiments to Mathematical Modeling and Operational Applications, Washington State University, Spokane, WA/Invited Speaker1 2009 Lecture on Comparative Studies of Stimulant Action as Countermeasures for Higher Order Cognition and Executive Function Impairment that Results from Disrupted Sleep Patterns, Presented at the NIDA-ODS Symposium entitled: Caffeine: Is the Next Problem Already Brewing, Rockville, MD [Invited Lecture] 2010 Oral Platform Presentation: Sleep deprivation selectively impairs emotional aspects of cognitive functioning, 27th Army Science Conference, Orlando, FL. Oral Platform Presentation: Exaggerated amygdala responses to masked fearful 2010 faces are specific to PTSD versus simple phobia, 27th Army Science Conference, Orlando, FL. 2011 Lecture Entitled: The effects of emotional intelligence on judgment and decision making, Military Operational Medicine Research Program Task Area C, R & A Briefing, Walter Reed Army Institute of Research, Silver Spring, MD [Invited] *Lecture 1* 2011 Lecture Entitled: Effects of bright light therapy on sleep, cognition, brain function, and neurochemistry following mild traumatic brain injury, Military Operational Medicine Research Program Task Area C, R & A Briefing, Walter Reed Army Institute of Research, Silver Spring, MD [Invited Lecture] 2012 Oral Symposium Presentation: Shared and distinctive patterns of cortico-limbic activation across anxiety disorders, 32nd Annual Conference of the Anxiety Disorders Association of America, Arlington, VA. 2012 Lecture Entitled: Effects of bright light therapy on sleep, cognition, brain function, and neurochemistry following mild traumatic brain injury, Military Operational Medicine Research Program In Progress Review (IPR) Briefing, U.S. Army Medical Research and Materiel Command, Fort Detrick, MD [Invited] Lecture] 2013 Lecture entitled Brain responses to visual images of food: Could your eyes be the gateway to excess? Presented to the NIH Nutrition Coordinating Committee and

	the Assistant Surgeon General of the United States, Bethesda, MD [Invited Lecture]
2013	Lecture Entitled: Update on the Effects of Bright light therapy on sleep, cognition, brain function, and neurochemistry following mild traumatic brain injury, Military Operational Medicine Research Program In Progress Review (IPR) Briefing, U.S. Army Medical Research and Materiel Command, Fort Detrick, MD [Invited Lecture]
2013	Lecture Entitled: Internet Based Cognitive Behavioral Therapy: Effects on Depressive Cognitions and Brain Function, Military Operational Medicine Research Program In Progress Review (IPR) Briefing, U.S. Army Medical Research and Materiel Command, Fort Detrick, MD [Invited Lecture]
2013	Symposium Entitled: Predicting Resilience Against Sleep Loss, United States Military Academy at West Point, West Point, NY [Invited Symposium].
International	
1999	Oral Platform Presentation: Functional MRI lateralization during memory encoding predicts seizure outcome following anterior temporal lobectomy, 27 th Annual Meeting of the International Neuropsychological Society, Boston, MA.
2001	Oral Platform Presentation: Sex differences in functional activation of the amygdala during the perception of happy faces, 29 th Annual Meeting of the International Neuropsychological Society, Chicago, IL.
2002	Oral Platform Presentation: Developmental changes in the lateralized activation of the prefrontal cortex and amygdala during the processing of facial affect, 30 th Annual Meeting of the International Neuropsychological Society, Toronto, Ontario, Canada.
2002	Oral Platform Presentation: Gray and white matter volume during adolescence correlates with cognitive performance: A morphometric MRI study, 30 th Annual Meeting of the International Neuropsychological Society, Toronto, Ontario, Canada.
2007	Symposium on Cortical and Limbic Activation in Response to Visual Images of Low and High-Caloric Foods, 6th Annual Meeting of the International Society for Behavioral Nutrition and Physical Activity (ISBNPA), Oslo, Norway [Invited Lecture]
2008	Lecture on Sleep Deprivation, Executive Function, & Resilience to Sleep Loss, First Franco-American Workshop on War Traumatism, IMNSSA, Toulon, France [Invited Lecture]
2012	Oral Platform Presentation: Shared and unique patterns of cortico-limbic activation across anxiety disorders. 40 th Meeting of the International Neuropsychological Society, Montreal, Canada.

Report of Clinical Activities and Innovations

Current Licensure and Certification

2001- Clinical Psychologist, New Hampshire

Practice Activities

- 1991- Psychology, Clinical, Psychology Clinic, Texas Tech University, Lubbock, TX
- 1995 <u>Clinical Activity Description:</u> Provided psychotherapy and other supervised psychological services for a broad spectrum of client problems. Duties included regular therapy contacts with four to eight clients per week for approximately four years. Clients ranged in age from preschool through middle age. Clinical responsibilities included intake evaluations, formal testing and assessment, case formulation and treatment plan development, and delivery of a wide range of psychotherapy services including crisis intervention, behavior modification, short-term cognitive restructuring, and long-term psychotherapy.

Patient Load: 6/week

- 1993- Psychology, Neuropsychology, Methodist Hospital Rehabilitation Institute, Lubbock, TX
- 1995 <u>Clinical Activity Description:</u> A two year placement consisting of two days per week within a large rehabilitation unit of a major regional medical center. Responsibilities included administration, scoring, and writing of neuropsychological assessments/reports, primarily emphasizing the Halstead-Reitan Neuropsychological Battery. Assessment services were provided on both inpatient and outpatient basis.

Patient Load: 2/week

- 1995- Psychology, Neuropsychology, Yale University School of Medicine, Connecticut Mental Health
- 1996 Center

<u>Clinical Activity Description:</u> Neuropsychological and psychodiagnostic assessment of chronic and severe mentally ill patients. Duties included patient interviewing, test administration, scoring, interpretation, and report writing. Assessment and consultation services were provided for both the inpatient and outpatient units.

Patient Load: 2/week

- 1995- Psychology, Clinical, Yale University School of Medicine, West Haven Mental Health Clinic
- 1996 <u>Clinical Activity Description:</u> Provided short-term, long-term, and group psychotherapy services, consultation, and psychological assessments for adults, children, and families. Duties also included co-leading a regular outpatient group devoted to treatment of moderate to severe personality disorders.

Patient Load: 12/week

- 1996- Psychology, Neuropsychology, University of Oklahoma Health Sciences Center
- 1997 <u>Clinical Activity Description:</u> Full-time placement in the Neuropsychological Assessment Laboratory, which meets INS/Division 40 guidelines for post-doctoral training in clinical

neuropsychology. Responsibilities included comprehensive neuropsychological assessment and consultation services, including test administration, scoring, interpretation, and report writing. Regular outpatient psychotherapy was also provided for approximately two patients per week. Patient Load: 4/week

1997- Psychology, Neuropsychology, University of Pennsylvania Medical Center

1999 <u>Clinical Activity Description:</u> Full-time two-year placement in the Department of Neurology, which meets INS/Division 40 guidelines for post-doctoral training in clinical neuropsychology. Responsibilities included neuropsychological assessment, consultation, and psychotherapy services for the Departments of Neurology and Neurosurgery. Patient Load: 3/week

Report of Education of Patients and Service to the Community

Recognition

2003-2007 Who's Who in America, Marquis Who's Who 2004-2005 Who's Who in Medicine and Healthcare, Marquis Who's Who

Report of Scholarship

Publications

Peer reviewed publications in print or other media

A) Research Investigations:

- 1. **Killgore WD**. The Affect Grid: a moderately valid, nonspecific measure of pleasure and arousal. Psychol Rep. 83(2):639-42, 1998.
- 2. **Killgore WD**. Empirically derived factor indices for the Beck Depression Inventory. Psychol Rep. 84(3 Pt 1):1005-13, 1999.
- 3. **Killgore WD**. Affective valence and arousal in self-rated depression and anxiety. Percept Mot Skills. 89(1):301-4, 1999.
- 4. **Killgore WD**, Adams RL. Prediction of Boston Naming Test performance from vocabulary scores: preliminary guidelines for interpretation. Percept Mot Skills. 89(1):327-37, 1999.
- 5. **Killgore WD**, Gangestad SW. Sex differences in asymmetrically perceiving the intensity of facial expressions. Percept Mot Skills. 89(1):311-4, 1999.
- 6. **Killgore WD**. The visual analogue mood scale: can a single-item scale accurately classify depressive mood state? Psychol Rep. 85(3 Pt 2):1238-43, 1999.
- 7. **Killgore WD**, DellaPietra L, Casasanto DJ. Hemispheric laterality and self-rated personality

- traits. Percept Mot Skills. 89(3 Pt 1):994-6, 1999.
- 8. **Killgore WD**, Glosser G, Casasanto DJ, French JA, Alsop DC, Detre JA. Functional MRI and the Wada test provide complementary information for predicting post-operative seizure control. Seizure. 8(8):450-5, 1999.
- 9. **Killgore WD**. Evidence for a third factor on the Positive and Negative Affect Schedule in a college student sample. Percept Mot Skills. 90(1):147-52, 2000.
- 10. **Killgore WD**, Dellapietra L. Item response biases on the logical memory delayed recognition subtest of the Wechsler Memory Scale-III. Psychol Rep. 86(3 Pt 1):851-7, 2000.
- 11. **Killgore WD**, Casasanto DJ, Yurgelun-Todd DA, Maldjian JA, Detre JA. Functional activation of the left amygdala and hippocampus during associative encoding. Neuroreport. 11(10):2259-63, 2000.
- 12. Yurgelun-Todd DA, Gruber SA, Kanayama G, **Killgore WD**, Baird AA, Young AD. fMRI during affect discrimination in bipolar affective disorder. Bipolar Disord. 2(3 Pt 2):237-48, 2000.
- 13. **Killgore WD**. Academic and research interest in several approaches to psychotherapy: a computerized search of literature in the past 16 years. Psychol Rep. 87(3 Pt 1):717-20, 2000.
- 14. **Killgore WD**. Sex differences in identifying the facial affect of normal and mirror-reversed faces. Percept Mot Skills. 91(2):525-30, 2000.
- 15. **Killgore WD**, DellaPietra L. Using the WMS-III to detect malingering: empirical validation of the rarely missed index (RMI). J Clin Exp Neuropsychol. 22(6):761-71, 2000.
- 16. Maldjian JA, Detre JA, **Killgore WD**, Judy K, Alsop D, Grossman M, Glosser G. Neuropsychologic performance after resection of an activation cluster involved in cognitive memory function. AJR Am J Roentgenol. 176(2):541-4, 2001.
- 17. **Killgore WD**, Oki M, Yurgelun-Todd DA. Sex-specific developmental changes in amygdala responses to affective faces. Neuroreport. 12(2):427-33, 2001.
- 18. **Killgore WD**, Yurgelun-Todd DA. Sex differences in amygdala activation during the perception of facial affect. Neuroreport. 12(11):2543-7, 2001.
- 19. Casasanto DJ, **Killgore WD**, Maldjian JA, Glosser G, Alsop DC, Cooke AM, Grossman M, Detre JA. Neural correlates of successful and unsuccessful verbal memory encoding. Brain Lang. 80(3):287-95, 2002.
- 20. **Killgore WD**. Laterality of lesions and trait-anxiety on working memory performance. Percept Mot Skills. 94(2):551-8, 2002.
- 21. **Killgore WD**, Cupp DW. Mood and sex of participant in perception of happy faces. Percept Mot Skills. 95(1):279-88, 2002.

- 22. Yurgelun-Todd DA, **Killgore WD**, Young AD. Sex differences in cerebral tissue volume and cognitive performance during adolescence. Psychol Rep. 91(3 Pt 1):743-57, 2002.
- 23. Yurgelun-Todd DA, **Killgore WD**, Cintron CB. Cognitive correlates of medial temporal lobe development across adolescence: a magnetic resonance imaging study. Percept Mot Skills. 96(1):3-17, 2003.
- 24. **Killgore WD**, Young AD, Femia LA, Bogorodzki P, Rogowska J, Yurgelun-Todd DA. Cortical and limbic activation during viewing of high- versus low-calorie foods. Neuroimage. 19(4):1381-94, 2003.
- 25. **Killgore WD**, Yurgelun-Todd DA. Activation of the amygdala and anterior cingulate during nonconscious processing of sad versus happy faces. Neuroimage. 21(4):1215-23, 2004.
- 26. **Killgore WD**, Yurgelun-Todd DA. Sex-related developmental differences in the lateralized activation of the prefrontal cortex and amygdala during perception of facial affect. Percept Mot Skills. 99(2):371-91, 2004.
- 27. **Killgore WD**, Glahn DC, Casasanto DJ. Development and Validation of the Design Organization Test (DOT): a rapid screening instrument for assessing visuospatial ability. J Clin Exp Neuropsychol. 27(4):449-59, 2005.
- 28. **Killgore WD**, Yurgelun-Todd DA. Body mass predicts orbitofrontal activity during visual presentations of high-calorie foods. Neuroreport. 16(8):859-63, 2005.
- 29. Wesensten NJ, **Killgore WD**, Balkin TJ. Performance and alertness effects of caffeine, dextroamphetamine, and modafinil during sleep deprivation. J Sleep Res. 14(3):255-66, 2005.
- 30. **Killgore WD**, Yurgelun-Todd DA. Social anxiety predicts amygdala activation in adolescents viewing fearful faces. Neuroreport. 16(15):1671-5, 2005.
- 31. **Killgore WD**, Yurgelun-Todd DA. Developmental changes in the functional brain responses of adolescents to images of high and low-calorie foods. Dev Psychobiol. 47(4):377-97, 2005.
- 32. Kahn-Greene ET, Lipizzi EL, Conrad AK, Kamimori GH, **Killgore WD**. Sleep deprivation adversely affects interpersonal responses to frustration. Pers Individ Dif. 41(8):1433-1443, 2006.
- 33. McBride SA, Balkin TJ, Kamimori GH, **Killgore WD**. Olfactory decrements as a function of two nights of sleep deprivation. J Sens Stud. 24(4):456-63, 2006.
- 34. **Killgore WD**, Yurgelun-Todd DA. Ventromedial prefrontal activity correlates with depressed mood in adolescent children. Neuroreport. 17(2):167-71, 2006.
- 35. **Killgore WD**, Vo AH, Castro CA, Hoge CW. Assessing risk propensity in American soldiers: preliminary reliability and validity of the Evaluation of Risks (EVAR) scale--English version. Mil Med. 171(3):233-9, 2006.

- 36. **Killgore WD**, Balkin TJ, Wesensten NJ. Impaired decision making following 49 h of sleep deprivation. J Sleep Res. 15(1):7-13, 2006.
- 37. **Killgore WD**, Stetz MC, Castro CA, Hoge CW. The effects of prior combat experience on the expression of somatic and affective symptoms in deploying soldiers. J Psychosom Res. 60(4):379-85, 2006.
- 38. **Killgore WD**, McBride SA, Killgore DB, Balkin TJ. The effects of caffeine, dextroamphetamine, and modafinil on humor appreciation during sleep deprivation. Sleep. 29(6):841-7, 2006.
- 39. **Killgore WD**, McBride SA. Odor identification accuracy declines following 24 h of sleep deprivation. J Sleep Res. 15(2):111-6, 2006.
- 40. **Killgore WD**, Yurgelun-Todd DA. Affect modulates appetite-related brain activity to images of food. Int J Eat Disord. 39(5):357-63, 2006.
- 41. Kendall AP, Kautz MA, Russo MB, **Killgore WD**. Effects of sleep deprivation on lateral visual attention. Int J Neurosci. 116(10):1125-38, 2006.
- 42. Yurgelun-Todd DA, **Killgore WD**. Fear-related activity in the prefrontal cortex increases with age during adolescence: a preliminary fMRI study. Neurosci Lett. 406(3):194-9, 2006.
- 43. **Killgore WD**, Killgore DB, Ganesan G, Krugler AL, Kamimori GH. Trait-anger enhances effects of caffeine on psychomotor vigilance performance. Percept Mot Skills. 103(3):883-6, 2006.
- 44. **Killgore WD**, Yurgelun-Todd DA. Unconscious processing of facial affect in children and adolescents. Soc Neurosci. 2(1):28-47, 2007.
- 45. **Killgore WD**, Yurgelun-Todd DA. The right-hemisphere and valence hypotheses: could they both be right (and sometimes left)?. Soc Cogn Affect Neurosci. 2(3):240-50, 2007.
- 46. **Killgore WD**, Killgore DB. Morningness-eveningness correlates with verbal ability in women but not men. Percept Mot Skills. 104(1):335-8, 2007.
- 47. **Killgore WD**, Killgore DB, Day LM, Li C, Kamimori GH, Balkin TJ. The effects of 53 hours of sleep deprivation on moral judgment. Sleep. 30(3):345-52, 2007.
- 48. Rosso IM, **Killgore WD**, Cintron CM, Gruber SA, Tohen M, Yurgelun-Todd DA. Reduced amygdala volumes in first-episode bipolar disorder and correlation with cerebral white matter. Biol Psychiatry. 61(6):743-9, 2007.
- 49. Kahn-Greene ET, Killgore DB, Kamimori GH, Balkin TJ, **Killgore WD**. The effects of sleep deprivation on symptoms of psychopathology in healthy adults. Sleep Med. 8(3):215-21, 2007.

- 50. **Killgore WD**. Effects of sleep deprivation and morningness-eveningness traits on risk-taking. Psychol Rep. 100(2):613-26, 2007.
- 51. **Killgore WD**, Gruber SA, Yurgelun-Todd DA. Depressed mood and lateralized prefrontal activity during a Stroop task in adolescent children. Neurosci Lett. 416(1):43-8, 2007.
- 52. **Killgore WD**, Yurgelun-Todd DA. Positive affect modulates activity in the visual cortex to images of high calorie foods. Int J Neurosci. 117(5):643-53, 2007.
- 53. Vo AH, Satori R, Jabbari B, Green J, **Killgore WD**, Labutta R, Campbell WW. Botulinum toxin type-a in the prevention of migraine: a double-blind controlled trial. Aviat Space Environ Med. 78(5 Suppl):B113-8, 2007.
- 54. **Killgore WD**, Yurgelun-Todd DA. Neural correlates of emotional intelligence in adolescent children. Cogn Affect Behav Neurosci. 7(2):140-51, 2007.
- 55. **Killgore WD**, Kendall AP, Richards JM, McBride SA. Lack of degradation in visuospatial perception of line orientation after one night of sleep loss. Percept Mot Skills. 105(1):276-86, 2007.
- 56. **Killgore WD**, Lipizzi EL, Kamimori GH, Balkin TJ. Caffeine effects on risky decision making after 75 hours of sleep deprivation. Aviat Space Environ Med. 78(10):957-62, 2007.
- 57. **Killgore WD**, Richards JM, Killgore DB, Kamimori GH, Balkin TJ. The trait of Introversion-Extraversion predicts vulnerability to sleep deprivation. J Sleep Res. 16(4):354-63, 2007.
- 58. **Killgore WD**, Kahn-Green ET, Killgore DB, Kamimori GH, Balkin TJ. Effects of acute caffeine withdrawal on Short Category Test performance in sleep-deprived individuals. Percept Mot Skills. 105(3 pt.2):1265-74, 2007.
- 59. **Killgore WD**, Killgore DB, McBride SA, Kamimori GH, Balkin TJ. Odor identification ability predicts changes in symptoms of psychopathology following 56 hours of sleep deprivation. J Sensory Stud. 23(1):35-51, 2008.
- 60. **Killgore WD**, Rupp TL, Grugle NL, Reichardt RM, Lipizzi EL, Balkin TJ. Effects of dextroamphetamine, caffeine and modafinil on psychomotor vigilance test performance after 44 h of continuous wakefulness. J Sleep Res. 17(3):309-21, 2008.
- 61. Huck NO, McBride SA, Kendall AP, Grugle NL, **Killgore WD**. The effects of modafinil, caffeine, and dextroamphetamine on judgments of simple versus complex emotional expressions following sleep deprivation. Int. J Neuroscience. 118(4):487-502, 2008.
- 62. **Killgore WD**, Kahn-Greene ET, Lipizzi EL, Newman RA, Kamimori GH, Balkin TJ. Sleep deprivation reduces perceived emotional intelligence and constructive thinking skills. Sleep Med. 9(5):517-26, 2008
- 63. **Killgore WD**, Grugle NL, Killgore DB, Leavitt BP, Watlington GI, McNair S, Balkin TJ. Restoration of risk-propensity during sleep deprivation: caffeine, dextroamphetamine, and

- modafinil. Aviat Space Environ Med. 79(9):867-74, 2008.
- 64. **Killgore WD**, Muckle AE, Grugle NL, Killgore DB, Balkin TJ. Sex differences in cognitive estimation during sleep deprivation: effects of stimulant countermeasures. Int J Neurosci. 118(11):1547-57, 2008.
- 65. **Killgore WD**, Cotting DI, Thomas JL, Cox AL, McGurk D, Vo AH, Castro CA, Hoge CW. Post-combat invincibility: violent combat experiences are associated with increased risk-taking propensity following deployment. J Psychiatr Res. 42(13):1112-21, 2008.
- 66. **Killgore WD**, Gruber SA, Yurgelun-Todd DA. Abnormal corticostriatal activity during fear perception in bipolar disorder. Neuroreport. 19(15):1523-7, 2008.
- 67. **Killgore WD**, McBride SA, Killgore DB, Balkin TJ, Kamimori GH. Baseline odor identification ability predicts degradation of psychomotor vigilance during 77 hours of sleep deprivation. Int. J Neurosci. 118(9):1207-1225, 2008.
- 68. **Killgore WD**, Rosso HM, Gruber SA, Yurgelun-Todd DA. Amygdala volume and verbal memory performance in schizophrenia and bipolar disorder. Cogn Behav Neur. 22(1):28-37, 2009.
- 69. **Killgore WD**, Kahn-Greene ET, Grugle NL, Killgore DB, Balkin TJ. Sustaining executive functions during sleep deprivation: A comparison of caffeine, dextroamphetamine, and modafinil. Sleep. 32(2):205-16, 2009.
- 70. **Killgore WD**, Grugle NL, Reichardt RM, Killgore DB, Balkin TJ. Executive functions and the ability to sustain vigilance during sleep loss. Aviat Space Environ Med. 80(2):81-7, 2009.
- 71. Picchioni, D, **Killgore, WD,** Braun, AR, & Balkin, TJ. Positron emission tomography correlates of EEG microarchitecture waveforms during non-REM sleep. Int J Neurosci. 119: 2074-2099, 2009.
- 72. **Killgore, WD**, Lipizzi, EL, Grugle, NL, Killgore, DB, & Balkin, TJ. Handedness correlates with actigraphically measured sleep in a controlled environment. Percept Mot Skills. 109: 395-400, 2009.
- 73. **Killgore, WD**, Killgore, DB, Grugle, NL, & Balkin, TJ. Odor identification predicts executive function deficits during sleep deprivation. Int J Neurosci, 120: 328-334, 2010.
- 74. **Killgore, WD**, Ross, AJ, Kamiya, T, Kawada, Y, Renshaw, PF, & Yurgelun-Todd, DA. Citicoline affects appetite and cortico-limbic responses to images of high calorie foods. Int J Eat Disord. 43: 6-13, 2010.
- 75. **Killgore, WD,** & Yurgelun-Todd, DA. Cerebral correlates of amygdala responses during non-conscious perception of facial affect in adolescent and pre-adolescent children. Cogn Neurosci, 1: 33-43, 2010.
- 76. **Killgore, WD**, & Yurgelun-Todd, DA. Sex differences in cerebral responses to images of

- high vs low calorie food. Neuroreport, 21: 354-358, 2010.
- 77. **Killgore, WD**, Grugle, NL, Killgore, DB, & Balkin, TJ. Sex differences in self-reported risk-taking propensity on the Evaluation of Risks scale. Percept Mot Skills, 106: 693-700, 2010.
- 78. **Killgore, WD**, Kelley, AM, & Balkin, TJ. So you think you're bulletproof: Development and validation of the Invincibility Belief Index. Mil Med, 175: 499-508, 2010.
- 79. **Killgore, WD**, Castro, CA, & Hoge, CW. Preliminary Normative Data for the Evaluation of Risks Scale—Bubble Sheet Version (EVAR-B) for Large Scale Surveys of Returning Combat Veterans. Mil Med, 175: 725-731, 2010.
- 80. Britton, JC, Rauch, SL, Rosso, IM, **Killgore, WD**, Price, LM, Ragan, J, Chosak, A, Hezel, D, Pine, DS, Leibenluft, E, Pauls, DL, Jenike, MA, Stewart, SE. Cognitive inflexibility and frontal cortical activation in pediatric obsessive-compulsive disorder. J Am Acad Child Adolesc Psychiatry, 49: 944-953, 2010.
- 81. Britton, JC, Stewart, SE, **Killgore, WD**, Rosso, IM, Price, LM, Gold, AL, Pine, DS, Wilhelm, S, Jenike, MA, & Rauch, SL. Amygdala activation in response to facial expressions in pediatric obsessive-compulsive disorder. Depress Anxiety, 27: 643-651, 2010.
- 82. Rupp, TL, **Killgore, WD**, & Balkin, TJ. Socializing by day may affect performance by night: Vulnerability to sleep deprivation is differentially mediated by social exposure in extraverts vs. introverts. Sleep, 33: 1475-1485, 2010.
- 83. Rosso, IM, Makris, N, Britton, JC, Price, LM, Gold, AL, Zai, D, Bruyere, J, Deckersbach, T, **Killgore, WD**, & Rauch, SL. Anxiety sensitivity correlates with two indices of right anterior insula structure in specific animal phobia. Depress Anxiety, 27: 1104-1110, 2010.
- 84. **Killgore, WD**, Britton, JC, Price, LM, Gold, AL, Deckersbach, T, & Rauch, SL. Neural correlates of anxiety sensitivity during masked presentation of affective faces. Depress Anxiety, 28: 243-249, 2011.
- 85. **Killgore, WD**, Kamimori, GH, & Balkin, TJ. Caffeine protects against increased risk-taking propensity during severe sleep deprivation. J Sleep Res 20: 395-403, 2011.
- 86. Capaldi, VF, Guerrero, ML, & **Killgore, WD**. Sleep disruption among returning combat veterans from Iraq and Afghanistan. Mil Med, 176: 879-888, 2011.
- 87. Gruber, SA, Dahlgren, MK, Sagar, KA, Gonenc, A, & **Killgore, WD.** Age of onset of marijuana use impacts inhibitory processing. Neurosci Lett 511(2):89-94, 2012.
- 88. **Killgore, WD**, Grugle, NL, & Balkin, TJ. Gambling when sleep deprived: Don't bet on stimulants. Chronobiol Int, 29: 43-54, 2012
- 89. **Killgore, WD**, Capaldi, VF, & Guerrero, ML. Nocturnal polysomnographic correlates of daytime sleepiness. Psychol Rep, 110(10), 63-72, 2012.

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- 91. **Killgore, WD**, Schwab, ZJ, Kipman, M, DelDonno, SR, Weber, M. Voxel-based morphometric grey matter correlates of daytime sleepiness. Neurosci Lett, 518(1), 10-13, 2012.
- 92. **Killgore, WD**, Schwab, ZJ, & Weiner, MR. Self-reported nocturnal sleep duration is associated with next-day resting state functional connectivity. Neuroreport, 23, 741-745, 2012.
- 93. **Killgore, WD**, & Schwab, ZJ. Sex differences in the association between physical exercise and cognitive ability. Perceptual and Motor Skills, 115, 605-617, 2012.
- 94. Kipman, M, Weber, M, Schwab, ZJ, DelDonno, SR, & **Killgore, WD**. A funny thing happened on the way to the scanner: Humor detection correlates with gray matter volume. Neuroreport, 23, 1059-1064, 2012.
- 95. Thomas, JJ, Hartman, AS, & **Killgore, WD**. Non-fat-phobic eating disorders: Why we need to investigate implicit associations and neural correlates. International Journal of Eating Disorders, 46, 416-419, 2013.
- 96. Weber, M, Webb, CA, & **Killgore, WD**. A brief and selective review of treatment approaches for sleep disturbance following traumatic brain injury. Journal of Sleep Disorders and Therapy, 2 (2), 1-5, 2013.
- 97. **Killgore, WD**, Schwab, ZJ, Weber, M, Kipman, M, DelDonno, SR, Weiner, MR, & Rauch, SL. Daytime sleepiness affects prefrontal regulation of food intake. NeuroImage, 71, 216-223, 2013.
- 98. **Killgore, WD**, Schwab, ZJ, Kipman, M, DelDonno, SR, & Weber, M. Insomnia-related complaints correlate with functional connectivity between sensory-motor regions. Neuroreport, 24, 233-240, 2013.
- 99. Webb, CA, Schwab, ZJ, Weber, M, DelDonno, SR, Kipman M, Weiner, MR, & **Killgore WD**. Convergent and divergent validity of integrative versus mixed model measures of emotional intelligence. Intelligence, 41, 149-156, 2013.
- 100. Weber, M, Webb, CA, DelDonno, SR, Kipman, M, Schwab, ZJ, Weiner, MR, & **Killgore**, **WD**. Habitual 'Sleep Credit' is associated with greater gray matter volume of the medial prefrontal cortex, higher emotional intelligence, and better mental health. Journal of Sleep Research, 22, 527-534, 2013.
- 101. Weber, M., **Killgore, WD**, Rosso, IM, Britton, JC, Schwab, ZJ, Weiner, MR, Simon, NM, Pollack, MH, & Rauch, SL. Voxel-based morphometric gray matter correlates of posttraumatic stress disorder. Journal of Anxiety Disorders, 27, 413-419, 2013.

- 102. **Killgore, WD**, Schwab, ZJ, Tkachenko, O, Webb, CA, DelDonno, SR, Kipman M, Rauch SL, and Weber M. Emotional intelligence correlates with functional responses to dynamic changes in facial trustworthiness. Social Neuroscience, 8, 334-346, 2013.
- 103. **Killgore, WD**, Weber, M, Schwab, ZJ, Kipman, M, DelDonno, SR, Webb, CA, & Rauch, SL. Cortico-limbic responsiveness to high-calorie food images predicts weight status among women. International Journal of Obesity (in press).
- 104. **Killgore, WD**. Self-reported sleep correlates with prefrontal-amygdala functional connectivity and emotional functioning. Sleep (in press).
- 105. **Killgore WD**, & Gogel, H. The Design Organization Test (DOT): Further Demonstration of Reliability and Validity as a Brief Measure of Visuospatial Ability. Applied Neuropsychology: Adult (in press).
- 106. **Killgore, WD**, Britton, JC, Schwab, ZJ, Price, LM, Weiner, MR, Gold, AL, Rosso, IM, Simon, NM, Pollack, MH, & Rauch, SL. Cortico-Limbic Responses to Masked Affective Faces Across PTSD, Panic Disorder, and Specific Phobia. Depression & Anxiety (in press).
- 107. **Killgore, WD**, Kipman, M, Schwab, ZJ, Tkachenko, O, Preer, L, Gogel, H, Bark, JS, Mundy, EA, Olsen, EA, & Weber, M. Physical exercise and brain responses to images of high calorie food. Neuroreport (in press).
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- 2. **Killgore, WD.** Asleep at the trigger: Warfighter judgment and decision-making during prolonged wakefulness. In Bartone, P. (Ed), Applying Research Psychology to Improve Performance and Policy. 2010, pp. 59-77.
- 3. **Killgore, WD.** Effects of Sleep Deprivation on Cognition. In Kerkhof, G. & Van Dongen, H. Progress in Brain Research: Sleep and Cognition. Elsevier, B.V. New York, 2010, pp. 105-129.

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- 6. **Killgore, WD.** Odor identification ability predicts executive function deficits following sleep deprivation. In Lee-Chiong, T (Ed), Best of Sleep Medicine 2011. National Jewish Health, Denver CO, 2011, pp. 31-33.
- 7. **Killgore, WD.** Socio-emotional and neurocognitive effects of sleep loss. In Matthews, G. (Ed), Handbook of Operator Fatigue. Ashgate, London UK, 2012, pp. 227-243.
- 8. **Killgore, WD.** Sleepless nights and bulging waistlines (Editorial). Journal of Sleep Disorders: Treatment and Care, 1(1), doi: 10.4172/jsdtc.1000e101, 2012.
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- 14. Weber, M., & **Killgore, WD**. What are the emerging therapeutic uses of bright light therapy for neurological disorders? (Editorial). Future Neurology (in press).

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- 1. **Killgore, WD**, Estrada, A, Rouse, T, Wildzunas, RM, Balkin, TJ. Sleep and performance measures in soldiers undergoing military relevant training. USAARL Report No. 2009-13. June, 2009.
- 2. Kelley, AM, Killgore, WD, Athy, JR, Dretsch, M. Risk propensity, risk perception, and

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- 2. **Killgore, WD.** Masters Thesis: Interaction of visual field and lateral facial asymmetry on the perceived intensity of emotional expressions in depressed and non-depressed subjects. Lubbock, TX: Texas Tech University;1992.
- 3. **Killgore, WD.** Dissertation: Development and validation of a new instrument for the measurement of transient mood states: The facial analogue mood scale (FAMS). Lubbock, TX: Texas Tech University;1995.

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- 2. **Killgore, WDS,** & Locke, B. A nonverbal instrument for the measurement of transient mood states: The Facial Analogue Mood Scale (FAMS) [Abstract]. Proceedings of the Annual Conference of the Oklahoma Center for Neurosciences 1996, Oklahoma City, OK.
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- 21. Yurgelun-Todd, DA, Gruber, SA, **Killgore, WDS,** & Tohen, M. Neuropsychological performance in first-episode bipolar disorder [Abstract]. Collegium Internationale Neuro-Psychopharmacologicum. Brussels, Belgium. July, 2000.
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- 31. Yurgelun-Todd, DA. & **Killgore, WDS.** Gray and white matter volume during adolescence correlates with cognitive performance: A morphometric MRI study [Abstract]. Oral platform paper presented at the 30th Annual Meeting of the International Neuropsychological Society, Toronto, Ontario, Canada, February 13-16, 2002.
- 32. **Killgore, WDS,** Reichardt, R. Kautz, M, Belenky, G, Balkin, T, & Wesensten, N. Daytime melatonin-zolpidem cocktail: III. Effects on salivary melatonin and performance [abstract]. Poster presented at the 17th Annual Meeting of the Associated Professional Sleep Societies, Chicago, Illinois, June 3-8, 2003.
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- 36. Wesensten, NJ, Balkin, TJ, Thorne, D, **Killgore, WDS,** Reichardt, R, & Belenky, G. Caffeine, dextroamphetamine, and modafinil during 85 hours of sleep deprivation: I. Performance and alertness effects [abstract]. Poster presented at the 75th Annual Meeting of the Aerospace Medical Association, Anchorage, AK, May 2-6 2004.
- 37. **Killgore, WDS,** Braun, AR, Belenky, G, Wesensten, NJ, & Balkin, TJ. Regional cerebral metabolic correlates of electroencephalographic activity during stage-2 and slow-wave sleep: An H215O PET Study [abstract]. Oral platform presentation at the 18th Associated Professional Sleep Societies Annual Meeting, Philadelphia, PA, June 5-10, 2004.
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- 51. **Killgore, WDS,** Killgore, DB, McBride, SA, & Balkin, TJ. Sustained verbal fluency following sleep deprivation and recovery sleep: The effects of caffeine, modafinil, and dextroamphetamine. Poster presented at the 34th Meeting of the International Neuropsychological Society, Boston, MA, February 1-4, 2006.
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- 53. **Killgore, WDS,** & Yurgelun-Todd, DA. Neural correlates of emotional intelligence in adolescent children. Poster presented at the 34th Meeting of the International Neuropsychological Society, Boston, MA, February 1-4, 2006.
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- 55. McBride, SA & **Killgore**, **WDS**. Sleepy people smell worse: Olfactory deficits following extended wakefulness. Paper presented at the Workshop on Trace Gas Detection Using Artificial, Biological, and Computational Olfaction. Monell Chemical Senses Center, Philadelphia, PA, March 29-31, 2006.
- 56. **Killgore, WDS,** Day LM, Li, C, Kamimori, GH, Balkin, TJ, & Killgore DB. Moral reasoning is affected by sleep deprivation [abstract]. Abstract presented at the 20th Meeting of the Associated Professional Sleep Societies, Salt Lake City, UT, June 17-22, 2006. SLEEP, 29 (Supplement), A137.
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- 59. Huck, NO, Kendall, AP, McBride, SA, **Killgore, WDS.** The perception of facial emotion is enhanced by psychostimulants following two nights of sleep deprivation [abstract]. Abstract presented at the 20th Meeting of the Associated Professional Sleep Societies, Salt Lake City, UT, June 17-22, 2006. SLEEP, 29 (Supplement), A136.
- 60. O'Sullivan, M, Reichardt, RM, Krugler, AL, Killgore, DB, & **Killgore, WDS.** Premorbid intelligence correlates with duration and quality of recovery sleep following sleep deprivation [abstract]. Abstract presented at the 20th Meeting of the Associated Professional Sleep Societies, Salt Lake City, UT, June 17-22, 2006. SLEEP, 29 (Supplement), A372.
- 61. McBride, SA, **Killgore, WDS,** Kahn-Green, E, Conrad, A, & Kamimori, GH. Caffeine administered to maintain overnight alertness does not disrupt performance during the daytime withdrawal period [abstract]. Abstract presented at the 20th Meeting of the Associated Professional Sleep Societies, Salt Lake City, UT, June 17-22, 2006. SLEEP, 29 (Supplement), A136.
- 62. McBride, SA, Killgore DB, Balkin, TJ, Kamimori, GH, & **Killgore, WDS.** Sleepy people smell worse: Olfactory decrements as a function of sleep deprivation [abstract]. Abstract presented at the 20th Meeting of the Associated Professional Sleep Societies, Salt Lake City, UT, June 17-22, 2006. SLEEP, 29 (Supplement), A135.
- 63. Day, LM, Li, C, Killgore, DB, Kamimori, GH, & **Killgore, WDS.** Emotional intelligence moderates the effect of sleep deprivation on moral reasoning [abstract]. Abstract presented at the 20th Meeting of the Associated Professional Sleep Societies, Salt Lake City, UT, June 17-22, 2006. SLEEP, 29 (Supplement), A135.
- 64. Murray, CJ, Killgore, DB, Kamimori, GH, & **Killgore, WDS.** Individual differences in stress management capacity predict responsiveness to caffeine during sleep deprivation [abstract]. Abstract presented at the 20th Meeting of the Associated Professional Sleep Societies, Salt Lake City, UT, June 17-22, 2006. SLEEP, 29 (Supplement), A43.
- 65. Murray, CJ, Newman, R, O'Sullivan, M, Killgore, DB, Balkin, TJ, & **Killgore, WDS.** Caffeine, dextroamphetamine, and modafinil fail to restore Stroop performance during sleep deprivation [abstract]. Abstract presented at the 20th Meeting of the Associated Professional Sleep Societies, Salt Lake City, UT, June 17-22, 2006. SLEEP, 29 (Supplement), A370-371.
- 66. Richards, J, Killgore, DB, & **Killgore**, **WDS**. The effect of 44 hours of sleep deprivation on mood using the Visual Analog Mood Scales [abstract]. Abstract presented at the 20th Meeting of the Associated Professional Sleep Societies, Salt Lake City, UT, June 17-22, 2006. SLEEP, 29 (Supplement), A132.
- 67. Richards, J, & Killgore, WDS. The effect of caffeine, dextroamphetamine, and modafinil on alertness and mood during sleep deprivation [abstract]. Abstract presented at the 20th Meeting of the Associated Professional Sleep Societies, Salt Lake City, UT, June 17-22, 2006. SLEEP, 29 (Supplement), A43.
- 68. Lipizzi, EL, Leavitt, BP, Killgore, DB, Kamimori, GH, & Killgore, WDS. Decision making

- capabilities decline with increasing duration of wakefulness [abstract]. Abstract presented at the 20th Meeting of the Associated Professional Sleep Societies, Salt Lake City, UT, June 17-22, 2006. SLEEP, 29 (Supplement), A131.
- 69. Lipizzi, EL, Killgore, DB, Kahn-Green, E, Kamimori, GH, & **Killgore, WDS.** Emotional intelligence scores decline during sleep deprivation [abstract]. Abstract presented at the 20th Meeting of the Associated Professional Sleep Societies, Salt Lake City, UT, June 17-22, 2006. SLEEP, 29 (Supplement), A131.
- 70. Kahn-Green, E, Day, L, Conrad, A, Leavitt, BP, Killgore, DB, & **Killgore, WDS.** Short-term vs. long-term planning abilities: Differential effects of stimulants on executive function in sleep deprived individuals [abstract]. Abstract presented at the 20th Meeting of the Associated Professional Sleep Societies, Salt Lake City, UT, June 17-22, 2006. SLEEP, 29 (Supplement), A370.
- 71. Kahn-Green, E, Conrad, A, Killgore, DB, Kamimori, GH, & **Killgore, WDS.** Tired and frustrated: Using a projective technique for assessing responses to stress during sleep deprivation [abstract]. Abstract presented at the 20th Meeting of the Associated Professional Sleep Societies, Salt Lake City, UT, June 17-22, 2006. SLEEP, 29 (Supplement), A130.
- 72. Killgore, DB, Kahn-Green, E, Balkin, TJ, Kamimori, GH, & **Killgore, WDS.** 56 hours of wakefulness is associated with a sub-clinical increase in symptoms of psychopathology [abstract]. Abstract presented at the 20th Meeting of the Associated Professional Sleep Societies, Salt Lake City, UT, June 17-22, 2006. SLEEP, 29 (Supplement), A130.
- 73. Killgore, DB, McBride, SA, Balkin, TJ, Leavitt, BP, & **Killgore, WDS.** Modafinil improves humor appreciation during sleep deprivation [abstract]. Abstract presented at the 20th Meeting of the Associated Professional Sleep Societies, Salt Lake City, UT, June 17-22, 2006. SLEEP, 29 (Supplement), A42.
- 74. Reichardt, RM, Killgore, DB, Lipizzi, EL, Li, CJ, Krugler, AL, & **Killgore, WDS.** The effects of stimulants on recovery sleep and post-recovery verbal performance following 61-hours of sleep deprivation [abstract]. Abstract presented at the 20th Meeting of the Associated Professional Sleep Societies, Salt Lake City, UT, June 17-22, 2006. SLEEP, 29 (Supplement), A42.
- 75. Bailey, JD, Richards, J, & Killgore, WDS. Prediction of mood fluctuations during sleep deprivation with the SAFTE Model [abstract]. Abstract presented at the 20th Meeting of the Associated Professional Sleep Societies, Salt Lake City, UT, June 17-22, 2006. SLEEP, 29 (Supplement), A60.
- 76. Kendall, AP, McBride, S. A, & **Killgore, WDS.** Visuospatial perception of line orientation is resistant to one night of sleep loss [abstract]. Abstract presented at the 20th Meeting of the Associated Professional Sleep Societies, Salt Lake City, UT, June 17-22, 2006. SLEEP, 29 (Supplement), A369.
- 77. Kendall, AP, McBride, SA, Kamimori, GH, & **Killgore, WDS.** The interaction of coping skills and stimulants on sustaining vigilance: Poor coping may keep you up at night

- [abstract]. Abstract presented at the 20th Meeting of the Associated Professional Sleep Societies, Salt Lake City, UT, June 17-22, 2006. SLEEP, 29 (Supplement), A129.
- 78. Muckle, A, Killgore, DB, & **Killgore, WDS.** Gender differences in the effects of stimulant medications on the ability to estimate unknown quantities when sleep deprived [abstract]. Abstract presented at the 20th Meeting of the Associated Professional Sleep Societies, Salt Lake City, UT, June 17-22, 2006. SLEEP, 29 (Supplement), A369.
- 79. Krugler, AL, **Killgore, WDS,** & Kamimori, G. H. Trait anger predicts resistance to sleep loss [abstract]. Abstract presented at the 20th Meeting of the Associated Professional Sleep Societies, Salt Lake City, UT, June 17-22, 2006. SLEEP, 29 (Supplement), A129.
- 80. **Killgore, WDS,** Cotting, DI, Vo, A. H, Castro, CA, & Hoge, CW. The invincibility syndrome: Combat experiences predict risk-taking propensity following redeployment [abstract]. Abstract presented at the 9th Annual Force Health Protection Conference, Albuquerque, NM, August 6-11, 2006.
- 81. **Killgore, WDS,** Wesensten, NJ, & Balkin, TJ. Stimulants improve tactical but not strategic planning during prolonged wakefulness [abstract]. Abstract presented at the 9th Annual Force Health Protection Conference, Albuquerque, NM, August 6-11, 2006.
- 82. **Killgore, WDS,** Balkin, TJ, Wesensten, NJ, & Kamimori, G. H. The effects of sleep loss and caffeine on decision-making [abstract]. Abstract presented at the 9th Annual Force Health Protection Conference, Albuquerque, NM, August 6-11, 2006.
- 83. **Killgore, WDS,** Balkin, TJ, & Kamimori, GH. Sleep loss can impair moral judgment [abstract]. Abstract presented at the 9th Annual Force Health Protection Conference, Albuquerque, NM, August 6-11, 2006.
- 84. **Killgore, WDS,** Lipizzi, EL, Reichardt, RM, Kamimori, GH, & Balkin, TJ. Can stimulants reverse the effects of sleep deprivation on risky decision-making [abstract]? Abstract presented at the 25th Army Science Conference, Orlando, FL, November 27-30, 2006.
- 85. **Killgore, WDS,** Killgore, DB, Kamimori, GH, & Balkin, TJ. Sleep deprivation impairs the emotional intelligence and moral judgment capacities of Soldiers [abstract]. Abstract presented at the 25th Army Science Conference, Orlando, FL, November 27-30, 2006.
- 86. **Killgore, WDS,** Cotting, DI, Vo, AH, Castro, C.A, & Hoge, CW. The post-combat invincibility syndrome: Combat experiences increase risk-taking propensity following deployment [abstract]. Abstract presented at the 25th Army Science Conference, Orlando, FL, November 27-30, 2006.
- 87. Adam, GE, Szelenyi, ER, **Killgore, WD,** & Lieberman, HR. A double-blind study of two days of caloric deprivation: Effects on judgment and decision-making. Oral paper presentation at the Annual Scientific Meeting of the Aerospace Medical Association, New Orleans, LA, May, 2007.
- 88. Killgore, DB, Kahn-Greene, ET, Kamimori, GH, & Killgore, WD. The effects of acute caffeine withdrawal on short category test performance in sleep deprived individuals

- [abstract]. Abstract presented at the 21st Meeting of the Associated Professional Sleep Societies, Minneapolis, MN, June 9-14, 2007. SLEEP, 30 (Supplement), A43.
- 89. Richards, JM, Lipizzi, EL, Kamimori, GH, & **Killgore, WD.** Extroversion predicts change in attentional lapses during sleep deprivation [abstract]. Abstract presented at the 21st Meeting of the Associated Professional Sleep Societies, Minneapolis, MN, June 9-14, 2007. SLEEP, 30 (Supplement), A137.
- 90. Lipizzi, EL, Richards, JM, Balkin, TJ, Grugle, NL, & **Killgore, WD.** Morningness-Eveningness and Intelligence [abstract]. Abstract presented at the 21st Meeting of the Associated Professional Sleep Societies, Minneapolis, MN, June 9-14, 2007. SLEEP, 30 (Supplement), A345.
- 91. Lipizzi, EL, Richards, Balkin, TJ, Grugle, NL, & **Killgore WD.** Morningness-Eveningness affects risk-taking propensity during sleep deprivation [abstract]. Abstract presented at the 21st Meeting of the Associated Professional Sleep Societies, Minneapolis, MN, June 9-14, 2007. SLEEP, 30 (Supplement), A136.
- 92. McBride, SA, Ganesan, G, Kamimori, GH, & **Killgore, WD.** Odor identification ability predicts vulnerability to attentional lapses during 77 hours of sleep deprivation [abstract]. Abstract presented at the 21st Meeting of the Associated Professional Sleep Societies, Minneapolis, MN, June 9-14, 2007. SLEEP, 30 (Supplement), A135.
- 93. Smith, KL, McBride, S. A, Kamimori, GH, & **Killgore, WD.** Individual differences in odor discrimination predict mood dysregulation following 56 hours of sleep deprivation [abstract]. Abstract presented at the 21st Meeting of the Associated Professional Sleep Societies, Minneapolis, MN, June 9-14, 2007. SLEEP, 30 (Supplement), A136.
- 94. McBride, SA, Leavitt, BP, Kamimori, GH, & **Killgore, WD.** Odor identification accuracy predicts resistance to sleep loss. Abstract presented at the 21st Meeting of the Associated Professional Sleep Societies, Minneapolis, MN, June 9-14, 2007. SLEEP, 30 (Supplement), A137.
- 95. Killgore, DB, McBride, SA, Balkin, TJ, Grugle, NL. & **Killgore, WD.** Changes in odor discrimination predict executive function deficits following 45 hours of wakefulness [abstract]. Abstract presented at the 21st Meeting of the Associated Professional Sleep Societies, Minneapolis, MN, June 9-14, 2007. SLEEP, 30 (Supplement), A136.
- 96. Rupp, TL, Killgore, DB, Balkin, TJ, Grugle, NL, & **Killgore, WD.** The effects of modafinil, dextroamphetamine, and caffeine on verbal and nonverbal fluency in sleep deprived individuals [abstract]. Abstract presented at the 21st Meeting of the Associated Professional Sleep Societies, Minneapolis, MN, June 9-14, 2007. SLEEP, 30 (Supplement), A43.
- 97. Newman, RA, Krugler, AL, Kamimori, GH, & **Killgore, WD.** Changes in state and trait anger following 56 hours of sleep deprivation [abstract]. Abstract presented at the 21st Meeting of the Associated Professional Sleep Societies, Minneapolis, MN, June 9-14, 2007. SLEEP, 30 (Supplement), A138.

- 98. Rupp, TL, Grugle, NL, Krugler, AL, Balkin, TJ, & **Killgore, WD.** Caffeine, dextroamphetamine, and modafinil improve PVT performance after sleep deprivation and recovery sleep [abstract]. Abstract presented at the 21st Meeting of the Associated Professional Sleep Societies, Minneapolis, MN, June 9-14, 2007. SLEEP, 30 (Supplement), A44.
- 99. **Killgore, WD,** Lipizzi, EL, Balkin, TJ, Grugle, NL, & Killgore, DB. The effects of sleep deprivation and stimulants on self-reported sensation seeking propensity [abstract]. Abstract presented at the 21st Meeting of the Associated Professional Sleep Societies, Minneapolis, MN, June 9-14, 2007. SLEEP, 30 (Supplement), A42.
- 100. **Killgore, WD,** Richards, JM, Balkin, TJ, Grugle, NL, & Killgore DB. The effects of sleep deprivation and stimulants on risky behavior [abstract]. Abstract presented at the 21st Meeting of the Associated Professional Sleep Societies, Minneapolis, MN, June 9-14, 2007. SLEEP, 30 (Supplement), A41.
- 101. Newman, RA, Smith, KL, Balkin, TJ, Grugle, NL, & **Killgore, WD.** The effects of caffeine, dextroamphetamine, and modafinil on executive functioning following 45 hours of sleep deprivation [abstract]. Abstract presented at the 21st Meeting of the Associated Professional Sleep Societies, Minneapolis, MN, June 9-14, 2007. SLEEP, 30 (Supplement), A45.
- 102. Richards, JM, Lipizzi, EL, Balkin, TJ, Grugle, NL, & **Killgore, WD.** Objective alertness predicts mood changes during 44 hours of sleep deprivation [abstract]. Abstract presented at the 21st Meeting of the Associated Professional Sleep Societies, Minneapolis, MN, June 9-14, 2007. SLEEP, 30 (Supplement), A56.
- 103. **Killgore, WD,** & Yurgelun-Todd, DA. Cortical and Limbic Activation in Response to Visual Images of Low and High-Caloric Food [abstract]. Oral symposium presented at the 6th Annual Conference of the Society of Behavioral Nutrition and Physical Activity (ISBNPA), Oslo, Norway, June 20-23, 2007. Proceedings of the ISBNPA, 2007, 75.
- 104. Estrada, A, **Killgore, WD,** Rouse, T, Balkin, TJ, & Wildzunas, RM. Total sleep time measured by actigraphy predicts academic performance during military training [abstract]. Abstract presented at the 22nd Meeting of the Associated Professional Sleep Societies, Baltimore, MD, June 7-12, 2008. SLEEP, 31 (Supplement), A134.
- 105. Killgore, WD, Lipizzi, EL, Smith, KL, Killgore, DB, Rupp, TL, Kamimori, GH, & Balkin, T. J. Nonverbal intelligence is inversely related to the ability to resist sleep loss [abstract]. Abstract presented at the 22nd Meeting of the Associated Professional Sleep Societies, Baltimore, MD, June 7-12, 2008. SLEEP, 31 (Supplement), A134.
- 106. **Killgore, WD,** Lipizzi, EL, Killgore, DB, Rupp, TL, Kamimori, GH, & Balkin, TJ. Emotional intelligence predicts declines in emotion-based decision-making following sleep deprivation [abstract]. Abstract presented at the 22nd Meeting of the Associated Professional Sleep Societies, Baltimore, MD, June 7-12, 2008. SLEEP, 31 (Supplement), A134.
- 107. Reid, CT, Smith, K, **Killgore, WD,** Rupp, TL, & Balkin, TJ. Higher intelligence is associated with less subjective sleepiness during sleep restriction [abstract]. Abstract

- presented at the 22nd Meeting of the Associated Professional Sleep Societies, Baltimore, MD, June 7-12, 2008. SLEEP, 31 (Supplement), A375.
- 108. Newman, R, **Killgore, WD,** Rupp, T. L, & Balkin, TJ. Better baseline olfactory discrimination is associated with worse PVT and MWT performance with sleep restriction and recovery [abstract]. Abstract presented at the 22nd Meeting of the Associated Professional Sleep Societies, Baltimore, MD, June 7-12, 2008. SLEEP, 31 (Supplement), A375.
- 109. Smith, KL, Reid, CT, **Killgore, WD,** Rupp, TL, & Balkin, TJ. Personality factors associated with performance and sleepiness during sleep restriction and recovery [abstract]. Abstract presented at the 22nd Meeting of the Associated Professional Sleep Societies, Baltimore, MD, June 7-12, 2008. SLEEP, 31 (Supplement), A376.
- 110. Lipizzi, EL, **Killgore, WD,** Rupp, TL, & Balkin, TJ. Risk-taking behavior is elevated during recovery from sleep restriction [abstract]. Abstract presented at the 22nd Meeting of the Associated Professional Sleep Societies, Baltimore, MD, June 7-12, 2008. SLEEP, 31 (Supplement), A376.
- 111. Lipizzi, EL, Rupp, TL, **Killgore, WD,** & Balkin, TJ. Sleep restriction increases risk-taking behavior [abstract]. Poster presented at the 11th Annual Force Health Protection Conference, Albuquerque, NM, August, 9-15, 2008.
- 112. **Killgore, WD,** Estrada, A, Balkin, TJ, & Wildzunas, RM. Sleep duration during army training predicts course performance [abstract]. Poster presented at the 6th Annual Force Health Protection Conference, Albuquerque, NM, August, 11-17, 2008.
- 113. **Killgore, WD,** Lipizzi, EL, Smith, KL, Killgore, DB, Rupp, TL, Kamimori, GH, & Balkin, TJ. Higher cognitive ability is associated with reduced relative resistance to sleep loss [abstract]. Poster presented at the 6th Annual Force Health Protection Conference, Albuquerque, NM, August, 11-17, 2008.
- 114. **Killgore, WD,** Rupp, TL, Grugle, NL, Lipizzi, EL, & Balkin, TJ. Maintaining alertness during sustained operations: Which stimulant is most effective after 44 hours without sleep [abstract]? Poster presented at the 6th Annual Force Health Protection Conference, Albuquerque, NM, August, 11-17, 2008.
- 115. **Killgore, WD,** Newman, RA, Lipizzi, EL, Kamimori, GH, & Balkin, TJ. Sleep deprivation increases feelings of anger but reduces verbal and physical aggression in Soldiers [abstract]. Poster presented at the 6th Annual Force Health Protection Conference, Albuquerque, NM, August, 11-17, 2008.
- 116. Kelley, AM, Dretsch, M, **Killgore, WD,** & Athy, JR. Risky behaviors and attitudes about risk in Soldiers. Abstract presented at the 29th Annual Meeting of the Society for Judgment and Decision Making, Chicago, IL, November, 2008.
- 117. **Killgore, WD,** Ross, AJ, Silveri, MM, Gruber, SA, Kamiya, T, Kawada, Y, Renshaw, PF, & Yurgelun-Todd, DA. Citicoline affects appetite and cortico-limbic responses to images of high calorie foods. Abstract presented at the Society for Neuroscience, Washington DC,

- November 19, 2008.
- 118. Britton, JC, Stewart, SE, Price, LM, **Killgore, WD,** Gold, AL, Jenike, MA, & Rauch, SL. Reduced amygdalar activation in response to emotional faces in pediatric Obsessive-Compulsive Disorder. Abstract presented at the Annual meeting of the American College of Neuropsychopharmacology, Scottsdale, AZ, December 7-11, 2008.
- 119. **Killgore, WD,** Balkin, TJ, Estrada, A, & Wildzunas, RM. Sleep and performance measures in soldiers undergoing military relevant training. Abstract presented at the 26th Army Science Conference, Orlando, FL, December 1-4, 2008.
- 120. **Killgore, WD** & Yurgelun-Todd, DA. Cerebral correlates of amygdala responses during non-conscious perception of affective faces in adolescent children. Abstract presented at the 37th Annual Meeting of the International Neuropsychological Society, Atlanta, GA, February 11-14, 2009.
- 121. **Killgore, WD,** Killgore, DB, Grugle, NL, & Balkin, TJ. Odor identification ability predicts executive function deficits following sleep deprivation. Abstract presented the 37th Annual Meeting of the International Neuropsychological Society, Atlanta, GA, February 11-14, 2009.
- 122. **Killgore, WD,** Rupp, TL, Killgore, DB, Grugle, NL, and Balkin, TJ. Differential effects of stimulant medications on verbal and nonverbal fluency during sleep deprivation. Abstract presented the 37th Annual Meeting of the International Neuropsychological Society, Atlanta, GA, February 11-14, 2009.
- 123. **Killgore, WD,** Killgore, DB, Kamimori, GH, & Balkin, TJ. When being smart is a liability: More intelligent individuals may be less resistant to sleep deprivation. Abstract presented the 37th Annual Meeting of the International Neuropsychological Society, Atlanta, GA, February 11-14, 2009.
- 124. **Killgore, WD,** Britton, JC, Price, LM, Gold, AL, Deckersbach, T, & Rauch, SL. Introversion is associated with greater amygdala and insula activation during viewing of masked affective stimuli. Abstract presented the 37th Annual Meeting of the International Neuropsychological Society, Atlanta, GA, February 11-14, 2009.
- 125. **Killgore, WD,** Britton, JC, Price, LM, Gold, AL, Deckersbach, T, & Rauch, SL. Amygdala responses of specific animal phobics do not differ from healthy controls during masked fearful face perception. Abstract presented the 37th Annual Meeting of the International Neuropsychological Society, Atlanta, GA, February 11-14, 2009.
- 126. **Killgore, WD,** Britton, JC, Price, LM, Gold, AL, Deckersbach, T, & Rauch, SL. Small animal phobics show sustained amygdala activation in response to masked happy facial expressions. Abstract presented the 37th Annual Meeting of the International Neuropsychological Society, Atlanta, GA, February 11-14, 2009. [*Merit Poster Award]
- 127. Price, LM, **Killgore, WD,** Britton, JC, Kaufman, ML, Gold, AL, Deckersbach, T, & Rauch, SL. Anxiety sensitivity correlates with insula activation in response to masked fearful faces in specific animal phobics and healthy subjects. Abstract presented at the Annual Conference

- of the Anxiety Disorders Association of America, Santa Ana Pueblo, New Mexico, March 12-15, 2009.
- 128. **Killgore, WD,** Britton, JC, Price, LM, Gold, AL, Deckersbach, T, & Rauch, SL. Neuroticism is inversely correlated with amygdala and insula activation during masked presentations of affective stimuli. Abstract presented at the Annual Conference of the Anxiety Disorders Association of America, Santa Ana Pueblo, New Mexico, March 12-15, 2009.
- 129. **Killgore, WD,** Kelley, AM, & Balkin, TJ. Development and validation of a scale to measure the perception of invincibility. Abstract presented at the Annual Conference of the Anxiety Disorders Association of America, Santa Ana Pueblo, New Mexico, March 12-15, 2009.
- 130. Kelly, AM, **Killgore WD,** Athy, J, & Dretsch, M. Risk propensity, risk perception, risk aversion, and sensation seeking in U.S. Army soldiers. Abstract presented at the 80th Annual Scientific Meeting of the Aerospace Medical Association, Los Angeles, CA, May 3-7, 2009.
- 131. Britton, JC, Stewart, SE, Price, LM, **Killgore, WD,** Jenike, MA, & Rauch, SL. The neural correlates of negative priming in pediatric obsessive-compulsive disorder (OCD). Abstract presented at the 64th Annual Scientific Meeting of the Society of Biological Psychiatry, Vancouver, Canada, May 14-16, 2009.
- 132. **Killgore, WD,** Killgore, DB, Kamimori, GH, & Balkin, TJ. Caffeine protects against increased risk-taking behavior during severe sleep deprivation. Abstract presented at the 23rd Annual Meeting of the Associated Professional Sleep Societies, Seattle, Washington, June 7-12, 2009.
- 133. Killgore, DB, **Killgore, WD,** Grugle, NL, & Balkin, TJ. Executive functions predict the ability to sustain psychomotor vigilance during sleep loss. Abstract presented at the 23rd Annual Meeting of the Associated Professional Sleep Societies, Seattle, Washington, June 7-12, 2009.
- 134. **Killgore, WD,** & Yurgelun-Todd, DA. Trouble falling asleep is associated with reduced activation of dorsolateral prefrontal cortex during a simple attention task. Abstract presented at the 23rd Annual Meeting of the Associated Professional Sleep Societies, Seattle, Washington, June 7-12, 2009.
- 135. **Killgore, WD,** Kelley, AM, & Balkin, TJ. A new scale for measuring the perception of invincibility. Abstract presented at the 12th Annual Force Health Protection Conference, Albuquerque, New Mexico, August 14-21, 2009.
- 136. **Killgore, WD,** Killgore, DB, Grugle, NL, & Balkin, TJ. Executive functions contribute to the ability to resist sleep loss. Abstract presented at the 12th Annual Force Health Protection Conference, Albuquerque, New Mexico, August 14-21, 2009.
- 137. **Killgore, WD,** Killgore, DB, Kamimori, GH, & Balkin, TJ. Caffeine reduces risk-taking behavior during severe sleep deprivation. Abstract presented at the 12th Annual Force Health Protection Conference, Albuquerque, New Mexico, August 14-21, 2009. [*Best Paper: Research]

- 138. **Killgore, WD,** Castro, CA, & Hoge, CW. Normative data for the Evaluation of Risks Scale—Bubble Sheet Version (EVAR-B) for large scale surveys of returning combat veterans. Abstract presented at the 12th Annual Force Health Protection Conference, Albuquerque, New Mexico, August 14-21, 2009.
- 139. **Killgore, WD,** Castro, CA, & Hoge, CW. Combat exposure and post-deployment risky behavior. Abstract presented at the 12th Annual Force Health Protection Conference, Albuquerque, New Mexico, August 14-21, 2009.
- 140. **Killgore, WD**, Price, LM, Britton, JC, Simon, N, Pollack, MH, Weiner, MR, Schwab, ZJ, Rosso, IM, & Rauch, SL. Paralimbic responses to masked emotional faces in PTSD: Disorder and valence specificity. Abstract presented at the Annual McLean Hospital Research Day, January 29, 2010.
- 141. **Killgore, WD**, Killgore, DB, Kamimori, GH, & Balkin, TJ. Caffeine minimizes behavioral risk-taking during 75 hours of sleep deprivation. Abstract presented at the 38th Annual Meeting of the International Neuropsychological Society, Acapulco, Mexico, February 3-6, 2010.
- 142. **Killgore, WD** & Balkin, TJ. Vulnerability to sleep loss is affected by baseline executive function capacity. Abstract presented at the 38th Annual Meeting of the International Neuropsychological Society, Acapulco, Mexico, February 3-6, 2010.
- 143. **Killgore, WD**, Smith, KL, Reichardt, RM., Killgore, DB, & Balkin, TJ. Intellectual capacity is related to REM sleep following sleep deprivation. Abstract presented at the 38th Annual Meeting of the International Neuropsychological Society, Acapulco, Mexico, February 3-6, 2010.
- 144. **Killgore, WD** & Yurgelun-Todd, DA. Cerebral correlates of amygdala responses to masked fear, anger, and happiness in adolescent and pre-adolescent children. Abstract presented at the 38th Annual Meeting of the International Neuropsychological Society, Acapulco, Mexico, February 3-6, 2010.
- 145. **Killgore, WD**, Post, A, & Yurgelun-Todd, DA. Sex differences in cortico-limbic responses to images of high calorie food. Abstract presented at the 38th Annual Meeting of the International Neuropsychological Society, Acapulco, Mexico, February 3-6, 2010.
- 146. **Killgore, WD** & Yurgelun-Todd, DA. Self-reported insomnia is associated with increased activation within the default-mode network during a simple attention task. Abstract presented at the 38th Annual Meeting of the International Neuropsychological Society, Acapulco, Mexico, February 3-6, 2010.
- 147. **Killgore, WD**, Price, LM, Britton, JC, Gold, AL, Deckersbach, T, & Rauch, SL. Neural correlates of anxiety sensitivity factors during presentation of masked fearful faces. Abstract presented at the 38th Annual Meeting of the International Neuropsychological Society, Acapulco, Mexico, February 3-6, 2010.

- 148. **Killgore, WD**, Grugle, NL, Conrad, TA, & Balkin, TJ. Baseline executive function abilities predict risky behavior following sleep deprivation. Abstract presented at the 24th Annual Meeting of the Associated Professional Sleep Societies, San Antonio, Texas, June 5-9, 2010.
- 149. **Killgore, WD**, Grugle, NL, & Balkin, TJ. Judgment of objective vigilance performance is affected by sleep deprivation and stimulants. Abstract presented at the 24th Annual Meeting of the Associated Professional Sleep Societies, San Antonio, Texas, June 5-9, 2010.
- 150. Killgore, DB, **Killgore, WD**, Grugle, NL, & Balkin, TJ. Resistance to sleep loss and its relationship to decision making during sleep deprivation. Abstract presented at the 24th Annual Meeting of the Associated Professional Sleep Societies, San Antonio, Texas, June 5-9, 2010.
- 151. Killgore DB, **Killgore, WD**, Grugle, NL, & Balkin, TJ. Subjective sleepiness and objective performance: Differential effects of stimulants during sleep deprivation. Abstract presented at the 24th Annual Meeting of the Associated Professional Sleep Societies, San Antonio, Texas, June 5-9, 2010.
- 152. Rupp, TL, **Killgore, WD**, & Balkin, TJ. Vulnerability to sleep deprivation is differentially mediated by social exposure in extraverts vs. introverts. Oral presentation at the "Data Blitz" section at the 24th Annual Meeting of the Associated Professional Sleep Societies, San Antonio, Texas, June 5-9, 2010.
- 153. Rupp, TL, **Killgore, WD**, & Balkin, TJ. Extraverts may be more vulnerable than introverts to sleep deprivation on some measures of risk-taking and executive functioning. Abstract presented at the 24th Annual Meeting of the Associated Professional Sleep Societies, San Antonio, Texas, June 5-9, 2010.
- 154. Rupp, TL, **Killgore, WD**, & Balkin, TJ. Vulnerability to sleep deprivation is differentially mediated by social exposure in extraverts vs. introverts. Abstract presented at the 24th Annual Meeting of the Associated Professional Sleep Societies, San Antonio, Texas, June 5-9, 2010.
- 155. Capaldi, VF, Guerrero, ML, & **Killgore, WD**. Sleep disorders among OIF and OEF Soldiers. Abstract presented at the 24th Annual Meeting of the Associated Professional Sleep Societies, San Antonio, Texas, June 5-9, 2010.
- 156. **Killgore, WD**, Killgore, DB, Kamimori, GH, & Balkin, TJ. Caffeine reduces behavioral risk-taking during sleep deprivation. Abstract presented at the 65th Annual Meeting of the Society for Biological Psychiatry, New Orleans, Louisiana, May 20-22, 2010.
- 157. **Killgore, WD**, Price, LM, Britton, JC, Simon, N, Pollack, MH, Weiner, MR, Schwab, ZJ, Rosso, IM, & Rauch, SL. Paralimbic responses to masked emotional faces in PTSD: Disorder and valence specificity. Abstract presented at the 65th Annual Meeting of the Society for Biological Psychiatry, New Orleans, Louisiana, May 20-22, 2010.
- 158. Rosso, IM, Makris, N, Britton, JC, Price, LM, Gold, AL, Deckersbach, T, **Killgore, WD**, & Rauch SL. Anxiety sensitivity correlates with insular cortex volume and thickness in specific

- animal phobia. Abstract presented at the 65th Annual Meeting of the Society for Biological Psychiatry, New Orleans, Louisiana, May 20-22, 2010.
- 159. Rupp, TL, **Killgore, WD**, & Balkin, TJ. Vulnerability to sleep deprivation is mediated by social exposure in extraverts versus introverts. Oral platform presentation at the 20th Congress of the European Sleep Research Society, Lisbon, Portugal, September 14-18, 2010.
- 160. **Killgore, WD**, Estrada, A, & Balkin, TJ. A tool for monitoring soldier fatigue and predicting cognitive readiness: The Sleep History and Readiness Predictor (SHARP). Abstract presented at the 27th Army Science Conference, Orlando, FL, November 29-December 2, 2010.
- 161. **Killgore, WD**, Kamimori, GH, & Balkin, TJ. Caffeinated gum minimizes risk-taking in soldiers during prolonged sleep deprivation. Abstract presented at the 27th Army Science Conference, Orlando, FL, November 29-December 2, 2010.
- 162. **Killgore, WD**, Britton, JC, Schwab, ZJ, Weiner, MR, Rosso, IM, & Rauch, SL. Exaggerated amygdala responses to masked fearful faces are specific to PTSD versus simple phobia. Oral platform presentation at the 27th Army Science Conference, Orlando, FL, November 29-December 2, 2010. *[*Winner Best Paper in Neuroscience]*
- 163. **Killgore, WD**, Kamimori, GH, & Balkin, TJ. Sleep deprivation selectively impairs emotional aspects of cognitive functioning. Oral platform presentation at the 27th Army Science Conference, Orlando, FL, November 29-December 2, 2010.
- 164. Rupp, TL, **Killgore, WD**, & Balkin, TJ. Evaluation of personality and social exposure as individual difference factors influencing response to sleep deprivation. Oral platform presentation at the 27th Army Science Conference, Orlando, FL, November 29-December 2, 2010.
- 165. **Killgore, WD**, Britton, JC, Rosso, IM, Schwab, ZJ, Weiner, MR, & Rauch, SL. Shared and differential patterns of amygdalo-cortical activation across anxiety disorders. Abstract presented at the 49th Annual Meeting of the American College of Neuropsychopharmacology, Miami Beach, FL, December 5-9, 2010.
- 166. Rosso, IM, **Killgore, WD**, Britton, JC, Weiner, MR, Schwab, ZJ, & Rauch, SL. Neural correlates of PTSD symptom dimensions during emotional processing: A functional magnetic resonance imaging study. Abstract presented at the 49th Annual Meeting of the American College of Neuropsychopharmacology, Miami Beach, FL, December 5-9, 2010.
- 167. **Killgore, WD,** Rosso, IM, Britton, JC, Schwab, ZJ, Weiner, MR, & Rauch, SL. Corticolimbic activation differentiates among anxiety disorders with and without a generalized threat response. Abstract presented at the McLean Hospital Research Day, January 13, 2011.
- 168. Weiner, MR, Schwab, ZJ, Rauch, SL, & **Killgore WD**. Personality factors predict brain responses to images of high-calorie foods. Abstract presented at the McLean Hospital Research Day, January 13, 2011.
- 169. Schwab, ZJ, Weiner, MR, Rauch, SL, & Killgore, WD. Emotional and cognitive

- intelligence: Support for the neural efficiency hypothesis. Abstract presented at the McLean Hospital Research Day, January 13, 2011.
- 170. Crowley, DJ, Covell, MJ, **Killgore, WD**, Schwab, ZJ, Weiner, MR, Acharya, D, Rosso, IM, & Silveri, MM. Differential influence of facial expression on inhibitory capacity in adolescents versus adults. Abstract presented at the McLean Hospital Research Day, January 13, 2011.
- 171. **Killgore, WD**, Britton, JC, Rosso, IM, Schwab, ZJ, Weiner, MR, & Rauch, SL. Similarities and differences in cortico-limbic responses to masked affect probes across anxiety disorders. Abstract presented at the 39th Annual Meeting of the International Neuropsychological Society, Boston, MA, February 2-5, 2011.
- 172. Rosso, IM, **Killgore, WD**, Britton, JC, Weiner, MR, Schwab, ZJ, & Rauch, SL. Hyperarousal and reexperiencing symptoms of post-traumatic stress disorder are differentially associated with limbic-prefrontal brain responses to threatening stimuli. Abstract presented at the 39th Annual Meeting of the International Neuropsychological Society, Boston, MA, February 2-5, 2011.
- 173. Schwab, ZJ, Weiner, MR, Rauch, SL, & **Killgore, WD**. Neural correlates of cognitive and emotional intelligence in adults. Abstract presented at the 39th Annual Meeting of the International Neuropsychological Society, Boston, MA, February 2-5, 2011.
- 174. Schwab, ZJ, Weiner, MR, Rauch, SL, & **Killgore, WD**. Cognitive and emotional intelligences: Are they distinct or related constructs? Abstract presented at the 39th Annual Meeting of the International Neuropsychological Society, Boston, MA, February 2-5, 2011.
- 175. Schwab, ZJ, Weiner, MR, Rauch, SL, & **Killgore, WD**. Discrepancy scores between cognitive and emotional intelligence predict neural responses to affective stimuli. Abstract presented at the 39th Annual Meeting of the International Neuropsychological Society, Boston, MA, February 2-5, 2011.
- 176. **Killgore, WD**, Schwab, ZJ, Weiner, MR, & Rauch, SL. Smart people go with their gut: Emotional intelligence correlates with non-conscious insular responses to facial trustworthiness. Abstract presented at the 39th Annual Meeting of the International Neuropsychological Society, Boston, MA, February 2-5, 2011.
- 177. **Killgore, WD**, Weiner, MR, Schwab, ZJ, & Rauch, SL. Whom can you trust? Neural correlates of subliminal perception of facial trustworthiness. Abstract presented at the 39th Annual Meeting of the International Neuropsychological Society, Boston, MA, February 2-5, 2011.
- 178. Weiner, MR, Schwab, ZJ, & Rauch, SL, **Killgore, WD**. Impulsiveness predicts responses of brain reward circuitry to high-calorie foods. Abstract presented at the 39th Annual Meeting of the International Neuropsychological Society, Boston, MA, February 2-5, 2011.
- 179. Weiner, MR, Schwab, ZJ, & Rauch, SL, **Killgore, WD**. Conscientiousness predicts brain responses to images of high-calorie foods. Abstract presented at the 39th Annual Meeting of

- the International Neuropsychological Society, Boston, MA, February 2-5, 2011.
- 180. Crowley, DJ, Covell, MJ, **Killgore, WD**, Schwab, ZJ, Weiner, MR, Acharya, D, Rosso, IM, & Silveri, MM. Differential influence of facial expression on inhibitory capacity in adolescents versus adults. Abstract presented at the 39th Annual Meeting of the International Neuropsychological Society, Boston, MA, February 2-5, 2011.
- 181. Gruber, SA, Dahlgren, MK, **Killgore, WD**, Sagar, KA, & Racine, MT. Marijuana: Age of onset of use impacts executive function and brain activation. Abstract presented at the 39th Annual Meeting of the International Neuropsychological Society, Boston, MA, February 2-5, 2011.
- 182. **Killgore, WD,** Conrad, TA, Grugle, NL, & Balkin, TJ. Baseline executive function abilities correlate with risky behavior following sleep deprivation. Abstract presented at the 39th Annual Meeting of the International Neuropsychological Society, Boston, MA, February 2-5, 2011.
- 183. **Killgore, WD,** Grugle, NL, Killgore, DB, & Balkin, TJ. Resistance to sleep loss and decision making during sleep deprivation. Abstract presented at the 39th Annual Meeting of the International Neuropsychological Society, Boston, MA, February 2-5, 2011.
- 184. **Killgore, WD,** Rosso, IM, Britton, JC, Schwab, ZJ, Weiner, MR, & Rauch, SL. Corticolimbic activation differentiates among anxiety disorders with and without a generalized threat response. Abstract presented at the 66th Annual Meeting of the Society for Biological Psychiatry, San Francisco, CA, May 12-14, 2011. **[*Blue Ribbon Finalist:** Clinical/Translational]
- 185. Schwab, ZJ, Weiner, MR, Rauch, SL, & **Killgore, WD.** Emotional and cognitive intelligence: Support for the neural efficiency hypothesis. Abstract presented at the 66th Annual Meeting of the Society for Biological Psychiatry, San Francisco, CA, May 12-14, 2011.
- 186. Weiner, MR, Schwab, ZJ, Rauch, SL, & **Killgore WD**. Personality factors predict brain responses to images of high-calorie foods. Abstract presented at the 66th Annual Meeting of the Society for Biological Psychiatry, San Francisco, CA, May 12-14, 2011.
- 187. **Killgore, WD,** Grugle, NL, & Balkin, TJ. Sleep deprivation impairs recognition of specific emotions. Abstract presented at the 25th Annual Meeting of the Associated Professional Sleep Societies, Minneapolis, MN, June 11-15, 2011.
- 188. **Killgore, WD,** & Balkin, TJ. Does vulnerability to sleep deprivation influence the effectiveness of stimulants on psychomotor vigilance? Abstract presented at the 25th Annual Meeting of the Associated Professional Sleep Societies, Minneapolis, MN, June 11-15, 2011.
- 189. Killgore, DB, **Killgore, WD,** Grugle, NJ, & Balkin, TJ. Sleep deprivation impairs recognition of specific emotions. Abstract presented at the 25th Annual Meeting of the Associated Professional Sleep Societies, Minneapolis, MN, June 11-15, 2011.

- 190. Weiner, MR, Schwab, ZJ, & **Killgore, WD.** Daytime sleepiness is associated with altered brain activation during visual perception of high-calorie foods: An fMRI study. Abstract presented at the 25th Annual Meeting of the Associated Professional Sleep Societies, Minneapolis, MN, June 11-15, 2011.
- 191. Schwab, ZJ, Weiner, MR, & **Killgore, WD.** Functional MRI correlates of morningness-eveningness during visual presentation of high calorie foods. Abstract presented at the 25th Annual Meeting of the Associated Professional Sleep Societies, Minneapolis, MN, June 11-15, 2011.
- 192. **Killgore, WD,** Weiner, MR, & Schwab, ZJ. Daytime sleepiness affects prefrontal regulation of food intake. Abstract presented at the McLean Hospital Research Day, January 11, 2012.
- 193. Kipman, M, Schwab ZJ, Weiner, MR, DelDonno, S, Rauch SL, & **Killgore WD**. The insightful yet bitter comedian: The role of emotional versus cognitive intelligence in humor appreciation. Abstract presented at the McLean Hospital Research Day, January 11, 2012.
- 194. Weber, M, & **Killgore**, **WD**. Gray matter correlates of emotional intelligence. Abstract presented at the McLean Hospital Research Day, January 11, 2012.
- 195. Schwab, ZJ, & **Killgore**, **WD**. Sex differences in functional brain responses to food. Abstract presented at the McLean Hospital Research Day, January 11, 2012.
- 196. DelDonno, S, Schwab, ZJ, Kipman M, Rauch, SL, & **Killgore, WD**. The influence of cognitive and emotional intelligence on performance on the Iowa Gambling Task. Abstract presented at the McLean Hospital Research Day, January 11, 2012.
- 197. Song, CH, Kizielewicz, J, Schwab, ZJ, Weiner, MR, Rauch, SL, & **Killgore, WD**. Time is of the essence: The Design Organization Test as a valid, reliable, and brief measure of visuospatial ability. Abstract presented at the 40th Annual Meeting of the International Neuropsychological Society, Montreal, CA, February 15-18, 2012.
- 198. Kipman, M, Schwab, ZJ, DelDonno, S, & **Killgore, WD**. Gender differences in the contribution of cognitive and emotional intelligence to the left visual field bias for facial perception. Abstract presented at the 40th Annual Meeting of the International Neuropsychological Society, Montreal, CA, February 15-18, 2012.
- 199. Kipman, M., Schwab, ZJ, Weiner, MR, DelDonno, S, Rauch, SL, & **Killgore, WD**. Contributions of emotional versus cognitive intelligence in humor appreciation. Abstract presented at the 40th Annual Meeting of the International Neuropsychological Society, Montreal, CA, February 15-18, 2012.
- 200. Schwab, ZJ, & **Killgore, WD**. Disentangling emotional and cognitive intelligence. Abstract presented at the 40th Annual Meeting of the International Neuropsychological Society, Montreal, CA, February 15-18, 2012.
- 201. Schwab, ZJ, & Killgore, WD. Sex differences in functional brain responses to food. Abstract presented at the 40th Annual Meeting of the International Neuropsychological

- Society, Montreal, CA, February 15-18, 2012.
- 202. DelDonno, S, Schwab, ZJ, Kipman, M, Rauch, SL, & **Killgore, WD**. The influence of cognitive and emotional intelligence on performance on the Iowa Gambling Task. Abstract presented at the 40th Annual Meeting of the International Neuropsychological Society, Montreal, CA, February 15-18, 2012.
- 203. **Killgore, WD**, Britton, JC, Rosso, IM, Schwab, ZJ, Weiner, MR, & Rauch, SL. Shared and unique patterns of cortico-limbic activation across anxiety disorders. Abstract presented at the 40th Annual Meeting of the International Neuropsychological Society, Montreal, CA, February 15-18, 2012.
- 204. **Killgore, WD**, & Balkin, TJ. Sleep deprivation degrades recognition of specific emotions. Abstract presented at the 40th Annual Meeting of the International Neuropsychological Society, Montreal, CA, February 15-18, 2012.
- 205. **Killgore, WD**, & Schwab, ZJ. Emotional intelligence correlates with somatic marker circuitry responses to subliminal cues of facial trustworthiness. Abstract presented at the 40th Annual Meeting of the International Neuropsychological Society, Montreal, CA, February 15-18, 2012.
- 206. **Killgore, WD**, & Schwab, ZJ. Trust me! Neural correlates of the ability to identify facial trustworthiness. Abstract presented at the 40th Annual Meeting of the International Neuropsychological Society, Montreal, CA, February 15-18, 2012.
- 207. **Killgore, WD**, Schwab, ZJ, Weiner, MR, Kipman, M, DelDonno, S, & Rauch SL. Overeating is associated with altered cortico-limbic responses to images of high calorie foods. Abstract presented at the 40th Annual Meeting of the International Neuropsychological Society, Montreal, CA, February 15-18, 2012.
- 208. **Killgore, WD**, Weiner, MR, & Schwab, ZJ. Daytime sleepiness affects prefrontal regulation of food intake. Abstract presented at the 40th Annual Meeting of the International Neuropsychological Society, Montreal, CA, February 15-18, 2012.
- 209. Weber, M, DelDonno, S, Kipman M, Schwab, ZJ, & **Killgore WD**. Grey matter correlates of self-reported sleep duration. Abstract presented at the Harvard Medical School Research Day, Boston, MA, March 28, 2012.
- 210. **Killgore, WD**. Overlapping and distinct patterns of neurocircuitry across PTSD, Panic Disorder, and Simple Phobia. Abstract presented at the 32nd Annual Conference of the Anxiety Disorders Association of America, Arlington, VA, April 12-15, 2012.
- 211. **Killgore, WD**, Britton, JC, Rosso, IM, Schwab, ZJ, & Rauch, SL. Shared and unique patterns of cortico-limbic activation across anxiety disorders. Abstract presented at the 67th Annual Meeting of the Society of Biological Psychiatry, Philadelphia, PA, May 3-5, 2012.
- 212. **Killgore, WD**, Schwab, ZJ, & Rauch, SL. Daytime sleepiness affects prefrontal inhibition of food consumption. Abstract presented at the 67th Annual Meeting of the Society of Biological

- Psychiatry, Philadelphia, PA, May 3-5, 2012.
- 213. Rosso, IM, Britton, JC, Makris, N, **Killgore, WDS**, Rauch SL, & Stewart ES. Impact of major depression comorbidity on prefrontal and anterior cingulate volumes in pediatric OCD. Abstract presented at the 67th Annual Meeting of the Society of Biological Psychiatry, Philadelphia, PA, May 3-5, 2012.
- 214. Kipman, M, Weber, M, DelDonno, S., Schwab, ZJ, & **Killgore, WD**. Morningness-Eveningness correlates with orbitofrontal gray matter volume. Abstract presented at the 26th Annual Meeting of the Associated Professional Sleep Societies, Boston, MA, June 9-13, 2012.
- 215. Kipman, M, Schwab, ZJ, Weber, M, DelDonno, S, & **Killgore, WD**. Yawning frequency is correlated with reduced medial thalamic volume. Abstract presented at the 26th Annual Meeting of the Associated Professional Sleep Societies, Boston, MA, June 9-13, 2012.
- 216. Weber, M, DelDonno, S, Kipman M, Schwab, ZJ, & **Killgore WD**. Grey matter correlates of daytime sleepiness. Abstract presented at the 26th Annual Meeting of the Associated Professional Sleep Societies, Boston, MA, June 9-13, 2012.
- 217. Weber, M, DelDonno, S, Kipman M, Schwab, ZJ, & **Killgore WD**. Grey matter correlates of self-reported sleep duration. Abstract presented at the 26th Annual Meeting of the Associated Professional Sleep Societies, Boston, MA, June 9-13, 2012.
- 218. DelDonno, S, Weber, M, Kipman M, Schwab, ZJ, & **Killgore, WD**. Resistance to insufficient sleep correlates with olfactory cortex gray matter. Abstract presented at the 26th Annual Meeting of the Associated Professional Sleep Societies, Boston, MA, June 9-13, 2012.
- 219. DelDonno, S, Schwab, ZJ, Kipman, M, Weber, M, & **Killgore, WD**. Weekend sleep is related to greater coping and resilience capacities. Abstract presented at the 26th Annual Meeting of the Associated Professional Sleep Societies, Boston, MA, June 9-13, 2012.
- 220. Schwab, ZJ, DelDonno, S, Weber, M, Kipman M, & **Killgore, WD**. Habitual caffeine consumption and cerebral gray matter volume. Abstract presented at the 26th Annual Meeting of the Associated Professional Sleep Societies, Boston, MA, June 9-13, 2012.
- 221. Schwab, ZJ, & **Killgore, WD**. Daytime sleepiness affects prefrontal regulation of food intake. Abstract presented at the 26th Annual Meeting of the Associated Professional Sleep Societies, Boston, MA, June 9-13, 2012.
- 222. **Killgore, WD**, Schwab, ZJ, DelDonno S, Kipman, M, Weber M, & Rauch, SL. Greater nocturnal sleep time is associated with increased default mode functional connectivity. Abstract presented at the 26th Annual Meeting of the Associated Professional Sleep Societies, Boston, MA, June 9-13, 2012.
- 223. **Killgore, WD**, Kamimori, GH, & Balkin, TJ. Caffeine improves efficiency of planning and sequencing abilities during sleep deprivation. Abstract presented at the 26th Annual Meeting

- of the Associated Professional Sleep Societies, Boston, MA, June 9-13, 2012.
- 224. Sneider, JT, **Killgore, WD**, Crowley, DJ, Cohen-Gilbert, JE, Schwab, ZJ, & Silveri, MM. Inhibitory capacity in emerging adult binge drinkers: Influence of Facial Cues. Abstract presented at the 35th Annual Scientific Meeting of the Research Society on Alcoholism, San Francisco, CA, June 23-27, 2012.
- 225. **Killgore WD**. Multimodal neuroimaging to predict cognitive resilience against sleep loss. Abstract presented at the DARPA Young Faculty Award 2012 Meeting, Arlington, VA, July 30-31, 2012.
- 226. Cohen-Gilbert, JE, Killgore WD, Crowley, DJ, Covell, MJ, Schwab, ZJ, Weiner, MR, Acharya, D, Sneider, JT, & Silveri, MM. Differential influence of safe versus threatening facial expressions on inhibitory control across adolescence and adulthood. Abstract presentede at the Society for Neuroscience 2012 Meeting, New Orleans, LA, October 13-17, 2012.
- 227. Weber, M, DelDonno, S, Kipman M, Schwab, ZJ, & **Killgore WD**. Grey matter correlates of self-reported sleep duration. Abstract presented at the Harvard Division of Sleep Medicine Annual Poster Session, Boston, MA, September 27, 2012.
- Weber, M, DelDonno, SR, Kipman, M, Preer, LA, Schwab ZJ, Weiner, MR, & Killgore, WD. The effect of morning bight light therapy on sleep, cognition and emotion following mild traumatic brain injury. Abstract accepted for poster presentation at the 2012 Sleep Research Network Meeting, 22-23 October 2012, Bethesda, MD.
- 229. Sneider, JT, **Killgore, WD**, Crowley, DJ, Cohen-Gilbert, JE, Schwab, ZJ, & Silveri, MM. Inhibitory capacity in emerging adult binge drinkers: Influence of Facial Cues. Abstract presented at the Annual McLean Hospital Research Day, January 16, 2013.
- 230. Cohen-Gilbert, JE, **Killgore WD**, Crowley, DJ, Covell, MJ, Schwab, ZJ, Weiner, MR, Acharya, D, Sneider, JT, & Silveri, MM. Differential influence of safe versus threatening facial expressions on inhibitory control across adolescence and adulthood. Abstract presented at the Annual McLean Hospital Research Day, January 16, 2013.
- 231. Tkachenko, O, Schwab, ZJ, Kipman, M, DelDonno, S, Gogel, H., Preer, L, & Killgore, WDS. Smarter women need less sleep. Abstract presented at the Annual McLean Hospital Research Day, January 16, 2013.
- 232. DelDonno, S, Kipman, M, Schwab, ZJ, & **Killgore, WDS**. The contributions of emotional intelligence and facial perception to social intuition. Abstract presented at the Annual McLean Hospital Research Day, January 16, 2013.
- 233. Kipman, M, Schwab, ZJ, DelDonno, S, Weber, M, Rauch, SL, & **Killgore, WDS**. The neurocircuitry of impulsive behavior. Abstract presented at the Annual McLean Hospital Research Day, January 16, 2013.
- 234. Preer, LA, Tkachenko, O, Gogel, H, Schwab, ZJ, Kipman, M, DelDonno, SR, Weber, M,

- Webb, CA, & **Killgore, WDS**. Emotional intelligence as a mediator of the association between anxiety sensitivity and anxiety symptoms. Abstract presented at the Annual McLean Hospital Research Day, January 16, 2013.
- 235. Gogel, H, DelDonno, S, Kipman M, Preer, LA, Schwab, ZJ, Tkachenko, O, & Killgore, WDS. Validation of the Design Organization Test (DOT) in a healthy population. Abstract presented at the Annual McLean Hospital Research Day, January 16, 2013.
- 236. Brennan, BP, Schwab, ZS, Athey, AJ, Ryan, EM, Pope, HG, **Killgore, WDS**, Jenike, MA, & Rauch, SL. A functional magnetic resonance imaging study of rostral anterior cingulate cortex activation in obsessive-compulsive disorder using an emotional counting stroop paradigm. Abstract presented at the Annual McLean Hospital Research Day, January 16, 2013.
- 237. Cohen-Gilbert, JE, Schwab, ZJ, **Killgore, WDS**, Crowley, DJ, & Silveri MM. Influence of Binge Drinking on the Neural Correlates of Inhibitory Control during Emotional Distraction in Young Adults. Abstract presented at the 3rd International Conference on Applications of Neuroimaging to Alcoholism (ICANA-3), New Haven, CT, February 15-18, 2013.
- 238. Weber, M, & Killgore, WDS. The interrelationship between 'sleep credit', emotional intelligence and mental health a voxel-based morphometric study. Abstract presented at Harvard Medical School Psychiatry Research Day, April 10, 2013.
- 239. Cohen-Gilbert, JE, Schwab, ZJ, **Killgore, WDS**, Crowley, DJ, & Silveri MM. Influence of Binge Drinking on the Neural Correlates of Inhibitory Control during Emotional Distraction in Young Adults. Abstract presented at Harvard Medical School Psychiatry Research Day, April 10, 2013.
- 240. Mundy, EA, Weber, M, Rauch, SL, **Killgore, WDS**, & Rosso, IM. The relationship between subjective stress levels in childhood and anxiety as well as perceived stress as an adult. Abstract presented at Harvard Medical School Psychiatry Research Day, April 10, 2013.
- 241. Webb, CA, **Killgore, WDS**, Britton, JC, Schwab, ZJ, Price, LM, Weiner, MR, Gold, AL, Rosso, IM, Simon, NM, Pollack, MH, & Rauch, SL. Comparing categorical versus dimensional predictors of functional response across three anxiety disorders. Abstract presented at the 68th Annual Meeting of the Society of Biological Psychiatry, San Francisco, CA, May 16-18, 2013.
- 242. Preer, LA, Tkachenko, O, Gogel, H, Schwab, ZJ, Kipman, M, DelDonno, SR, Weber, M, Webb, CA, Rauch, SL, & **Killgore, WDS**. Linking Sleep Trouble to Neuroticism, Emotional Control, and Impulsiveness. Abstract presented at the 68th Annual Meeting of the Society of Biological Psychiatry, San Francisco, CA, May 16-18, 2013.
- 243. Preer, LA, Tkachenko, O, Gogel, H, Schwab, ZJ, Kipman, M, DelDonno, SR, Weber, M, Webb, CA, Rauch, SL, & **Killgore, WDS**. Emotional Intelligence as a Mediator of the Association between Anxiety Sensitivity and Anxiety Symptoms. Abstract presented at the 68th Annual Meeting of the Society of Biological Psychiatry, San Francisco, CA, May 16-18, 2013.

- 244. Kipman, M, Schwab, ZJ, DelDonno, S, Weber, M, Rauch, SL, & **Killgore, WDS**. The neurocircuitry of impulsive behavior. Abstract presented at the 68th Annual Meeting of the Society of Biological Psychiatry, San Francisco, CA, May 16-18, 2013.
- 245. Weber, M, **Killgore, WDS**, Rosso, IM, Britton, JC, Simon, NM, Pollack, MH, & Rauch, SL. Gray matter correlates of posttraumatic stress disorder—A voxel based morphometry study. Abstract presented at the 68th Annual Meeting of the Society of Biological Psychiatry, San Francisco, CA, May 16-18, 2013.
- Weber, M, Penetar, DM, Trksak, GH, DelDonno, SR, Kipman, M, Schwab, ZJ, & Killgore, WDS. Morning blue wavelength light therapy improves sleep, cognition, emotion and brain function following mild traumatic brain injury. Abstract presented at the 68th Annual Meeting of the Society of Biological Psychiatry, San Francisco, CA, May 16-18, 2013.
- 247. Tkachenko, O, Schwab, ZJ, Kipman, M, Preer, LA, Gogel, H, DelDonno, SR, Weber, M, Webb, CA, Rauch, SL, & **Killgore, WDS**. Difficulty in falling asleep and staying asleep linked to a sub-clinical increase in symptoms of psychopathology. Abstract presented at the 68th Annual Meeting of the Society of Biological Psychiatry, San Francisco, CA, May 16-18, 2013.
- 248. **Killgore, WDS**, Schwab, ZJ, Kipman, M, DelDonno, SR, Rauch, SL, & Weber, M. Problems with sleep initiation and sleep maintenance correlate with functional connectivity among primary sensory cortices. Abstract presented at the 68th Annual Meeting of the Society of Biological Psychiatry, San Francisco, CA, May 16-18, 2013.
- 249. **Killgore, WDS**, Schwab, ZJ, Kipman, M, DelDonno, SR, Rauch, SL, & Weber, M. A Couple of Hours Can Make a Difference: Self-Reported Sleep Correlates with Prefrontal-Amygdala Connectivity and Emotional Functioning. Abstract presented at the 68th Annual Meeting of the Society of Biological Psychiatry, San Francisco, CA, May 16-18, 2013.
- 250. Brennan, BP, Schwab, ZS, Athey, AJ, Ryan, EM, Pope, HG, **Killgore, WDS**, Jenike, MA, & Rauch, SL. A functional magnetic resonance imaging study of rostral anterior cingulate cortex activation in obsessive-compulsive disorder using an emotional counting stroop paradigm. Abstract presented at the 68th Annual Meeting of the Society of Biological Psychiatry, San Francisco, CA, May 16-18, 2013.
- 251. Weber, M, & Killgore, WDS. The interrelationship between 'sleep credit', emotional intelligence and mental health a voxel-based morphometric study. Abstract presented at the SLEEP 2013 Annual Meeting, Baltimore, MD, June 1-5, 2013.
- Weber, M, Penetar, DM, Trksak, GH, DelDonno, SR, Kipman, M, Schwab, ZJ, & Killgore, WDS. Morning blue wavelength light therapy improves sleep, cognition, emotion and brain function following mild traumatic brain injury. Abstract presented at the SLEEP 2013 Annual Meeting, Baltimore, MD, June 1-5, 2013.
- 253. **Killgore, WDS**, Schwab, ZJ, Kipman, M, DelDonno, SR, & Weber, M. Problems with Sleep Initiation and Sleep Maintenance Correlate with Functional Connectivity Among Primary

- Sensory Cortices. Abstract presented at the SLEEP 2013 Annual Meeting, Baltimore, MD, June 1-5, 2013.
- 254. **Killgore, WDS**, Schwab, ZJ, Kipman, M, DelDonno, SR, & Weber, M. A Couple of Hours Can Make a Difference: Self-Reported Sleep Correlates with Prefrontal-Amygdala Connectivity and Emotional Functioning. Abstract presented at the SLEEP 2013 Annual Meeting, Baltimore, MD, June 1-5, 2013.
- 255. Tkachenko, O, Schwab, ZJ, Kipman, M, DelDonno, SR, Preer, LA, Gogel, H, Weber, M, Webb, CA, & Killgore, WDS. Difficulty in falling asleep and staying asleep linked to a subclinical increase in symptoms of psychopathology. Abstract presented at the SLEEP 2013 Annual Meeting, Baltimore, MD, June 1-5, 2013.
- 256. Preer, LA, Tkachenko, O, Gogel, H, Schwab, ZJ, Kipman, M, DelDonno, SR, Weber, M, Webb, CA, & Killgore, WDS. Linking Sleep Initiation Trouble to Neuroticism, Emotional Control, and Impulsiveness. Abstract presented at the SLEEP 2013 Annual Meeting, Baltimore, MD, June 1-5, 2013.